INTERNATIONAL STANDARD

ISO/IEC 24727-5

First edition
2011-03-15

Identification cards — Integrated circuit card programming interfaces —

Part 5: Testing procedures

Cartes d'identification — Interfaces programmables de cartes à puce — Partie 5: Essais

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Reference number
ISO/IEC 24727-5:2011(E)

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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 24727-5 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 17, *Cards and personal identification*.

ISO/IEC 24727 consists of the following parts, under the general title *Identification cards — Integrated circuit card programming interfaces*:

— *Part 1: Architecture*

— *Part 2: Generic card interface*

— *Part 3: Application interface*

— *Part 4: Application programming interface (API) administration*

— *Part 5: Testing procedures*

— *Part 6: Registration authority procedures for the authentication protocols for interoperability*

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Introduction

ISO/IEC 24727 is a set of programming interfaces for interactions between integrated circuit cards (ICCs) and external applications to include generic services for multi-sector use. The organization and the operation of the ICCs conform to ISO/IEC 7816-4.

ISO/IEC 24727 is relevant to ICC applications desiring interoperability among diverse application domains.

ISO/IEC 7498-1:1994, *Information technology — Open Systems Interconnection — Basic Reference Model: The Basic Model*, is used as the layered architecture of the client-application to card-application connectivity. That is, the client-application, through the Application Interface, assumes that there is a protocol stack through which it will exchange information and transactions among card-applications using commands conveyed through the message structures defined in ISO/IEC 7816. The semantics of action requests through the interface defined in ISO/IEC 24727-3 refers to application protocol data units (APDUs) as characterized through the interface defined in ISO/IEC 24727-2 and in the following International Standards:

— ISO/IEC 7816-4:2005, *Identification cards — Integrated circuit cards — Part 4: Organization, security and commands for interchange*

— ISO/IEC 7816-8:2004, *Identification cards — Integrated circuit cards — Part 8: Commands for security operations*

— ISO/IEC 7816-9:2004, *Identification cards — Integrated circuit cards — Part 9: Commands for card management*

The goal of ISO/IEC 24727 is to maximize the applicability and solution space of software tools that provide application interface support to card-aware client-applications. This effort includes supporting the evolution of card systems as the cards become more powerful, peer-level partners with existing and future applications while minimizing the impact to existing solutions conforming to this part of ISO/IEC 24727.

This part of ISO/IEC 24727 specifies an application-independent and implementation-independent testing regimen through which conformance of specific implementations to the relevant part of ISO/IEC 24727 can be confirmed. It is assumed that such testing will be performed through test environments and procedures developed in accordance with this part of ISO/IEC 24727.

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Identification cards — Integrated circuit card programming interfaces —

Part 5: Testing procedures

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1 Scope

ISO/IEC 24727 is a set of programming interfaces for interactions between integrated circuit cards and external applications to include generic services for multi-sector use.

This part of ISO/IEC 24727 specifies conformance testing procedures designed to determine if interfaces developed with the ISO/IEC 24727 series meet the requirement of ISO/IEC 24727. By conforming to this part of ISO/IEC 24727, interoperable implementations of ISO/IEC 24727 can be realized.

Test procedures for ISO/IEC 24727-2, ISO/IEC 24727-3 and ISO/IEC 24727-4 are described with sufficient detailing in support of ISO/IEC 24727 interoperability requirements, i.e. the connectivity, ISO/IEC 24727 security mechanisms and discovery mechanisms between the client-application and the card-application. This part of ISO/IEC 24727 defines calls on ISO/IEC 24727-3 in an ordered sequence. It also defines the confirmation of integrity of transmitted data by an implementation under test, as well as the syntax of that data received from the implementation under test for the marshalling procedures defined in ISO/IEC 24727-3 and ISO/IEC 24727-4.

For each test procedure, the conditions required for its execution are defined, along with the conditions under which it has to be executed and the expected results. Structures and entities used for the tests, as well as a common set of recurring sequences used for the various procedures, are identified and documented in this part of ISO/IEC 24727.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 24727-2:2008, *Identification cards — Integrated circuit card programming interfaces — Part 2: Generic card interface*

ISO/IEC 24727-3:2008, *Identification cards — Integrated circuit card programming interfaces — Part 3: Application interface*

ISO/IEC 24727-4:2008, *Identification cards — Integrated circuit card programming interfaces — Part 4: Application programming interface (API) administration*

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3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
certification
formal confirmation of successful conformance testing by a certified party

3.2
component
executable code comprising a processing layer accessed with ISO/IEC 24727 defined application programming interfaces

[ISO/IEC 24727-4:2008]

3.3
component-under-test
ISO/IEC 24727 component being tested

3.4
conformance-testing
formal demonstration that a component complies with specified critera established by a standard

3.5
conformance-vector
concatenation of the tuple element values

3.6
dimension-of-conformance
tuple element of a conformance-vector

3.7
native-implementation
on-card implementation connected to ISO/IEC 24727-2 layer either directly or via a procedural element

3.8
card-application emulator
processing component accessed through the interface device application programming interface (IFD-API) that simulates the behaviour of a smart card-application

3.9
card emulator
processing component accessed through the interface device application programming interface (IFD-API) that simulates the behaviour of a card

3.10
stack-configuration
series of processing components connected by communication channels that connect a client-application to a card-application as specified by the ISO/IEC 24727-4 protocol stacks

3.11
test-component
ISO/IEC 24727 trusted component that is provided and used by the testee

3.12
test-environment
systems, personnel and standard procedures to perform conformance-testing

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3.13
test-implementation
ISO/IEC 24727 stack including the component(s) under test and testing components

3.14
testing-body
organization providing a test-environment, test-implementation and means to perform conformance-testing

4 Symbols and abbreviated terms

ACA	alpha card application
ACD	application capability description
ACL	access control list
AK	asymmetric key
APDU	application protocol data unit
API	application programming interface
AR	access rule
CA	card application
CCD	card capability description
CIA	cryptographic information application
CUT	component under test
DER-TLV	distinguished encoding rules – tag length value
DF	dedicated file
DID	differential identity
DS	data set
DSI	data structure for interoperability
EF	elementary file
GCI	generic card interface
IFD	interface device
MF	master file
PC/SC	personal computer / smart card consortium
RMI	reference model implementation
RFU	reserved for future use
SAL	service access layer

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SE security environment

TC test component

TLS transport layer security

5 Testing methodology

ISO/IEC 24727 establishes the facilities for interoperability through the specification of a number of interfaces. Independent implementations of each interface shall be interchangeable and thus provide for interoperability at each interface. Consequently, ISO/IEC 24727 enables a wide variety of interoperability. This part of ISO/IEC 24727 shall provide a methodology for conformance-testing such that distinct interface implementations can be affirmed as being interchangeable with other independent implementations.

The testing methodology assumes a test-environment that presents standard characteristics that include:

1) Equipment configuration interfaces

2) Test-implementations

3) Test-specifications

Given these standard characteristics a testing-body can make use of this test-environment to confirm the behaviour of the various interfaces through which interoperability is enabled.

This part of ISO/IEC 24727 does not test the following:

1) Tests for quality, performance, robustness

2) Testing of standards and protocols that are referenced within

3) Testing of proprietary card application services, their creation and execution

4) Error conditions that cannot be produced by a correctly functioning implementation

5.1 Terms of testing

5.1.1 Purpose of testing

The purpose of ISO/IEC 24727-5 is to provide testing specifications at a level that allow independent testing bodies to conduct testing with the assurance of independent equivalent results.

5.1.2 Testing objective

The objective of ISO/IEC 24727-5 is to specify a testing regimen that enables independent, equivalent implementations. Independent testing bodies can thereby evaluate conformance to ISO/IEC 24727 with equivalent results. Levels of certification can then indicate which component or set of components is ISO/IEC 24727 conformant.

5.1.3 Testing Principles

The testing principles are derived from the ISO/IEC 24727 objective of interoperability. Interoperability is achieved by specifying interfaces and behaviour through which a component is accessed. Since each component is tested independently there will be varying levels of conformance and a distinct set of certification levels will be defined that address single components as well as a concatenation of components that form ISO/IEC 24727 component-configurations.

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ISO/IEC 24727-5 defines test configurations and unique parameters to be applied uniformly to each component for different implementations to assure conformance.

It is assumed that automated testing tools can be used for:

- the generation of test data that is used as input and output during testing to ensure that all user data is differs for each test execution;
- consistent definition;
- performance of tests; and
- result reporting.

ISO/IEC 24727 certification is enabled through ISO/IEC 24727-5 tests that can be administered by testing bodies.

Table 1 —Testing Principles

	Principle
1.	To attain conformance, all aspects of the ISO/IEC 24727 interfaces for the Component-under-test shall comply with ISO/IEC 24727.
2.	ISO/IEC 24727-5 testing shall only include behavioural testing at the component interfaces.
3.	Testing shall encompass one or more of the following ISO/IEC 24727 components: i. ASN.1 DER-TLV defined APIs; ii. communication interfaces; iii. C language bindings for API marshalling and binding of the APIs; iv. stack configurations; v. authentication protocols.
4.	A test facility shall provide a reference test implementation that permits a component under test to be tested in a complete stack test configuration.
5.	The use of automated testing tools is assumed for generating tests and to aid the certification process.
6.	ISO/IEC 24727-5 should enable the development of conformance and certification testing abilities to be derived in a consistent manner.
7.	Every component under test shall be subject to tests defined at the ISO/IEC 24727-3 API.
8.	Only services and actions as defined by ISO/IEC 24727-3 shall be tested. The testing of proprietary services, actions and the associated creation and loading of these is out of scope.
9.	Test inputs and results shall vary each time a test is performed in order to ascertain that tests are not predictable.
10.	ISO/IEC 24727-3 testing verifies the request and response of the interface and the APDUs it generates.
11.	ISO/IEC 24727-3 proxy testing verifies the request and response of the interface plus the DER-TLV that it generates.
12.	ISO/IEC 24727-3 (including proxy) tests shall be run against blank and populated (partially provisioned) smart cards.
13.	Interoperability is only fully tested in the C language implementation (until other language binding is provided)
14.	Any other languages shall use an agent to translate the messages (e.g. DER-TLV) into language

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	Principle
	specific bindings.
15.	Data transfer over communication channels is intercepted by a "man in the middle" and compared to the test data (protocol analysers).
16.	The only testable interface at the card application is the ISO/IEC 24727-3 on-card implementation.
17.	Only IFD API syntax (i.e. the structure and not the containing data) shall be tested. The testing of data contained within the IFD API syntax is out of scope.
18.	Only TC API syntax shall be tested. The testing of data contained within the TC API syntax is out of scope.
19.	Testing of procedural element low-level coding and functions is out of scope
20.	Testing of other standards that are referenced within ISO/IEC 24727 is out of scope
21.	Testing of other protocols (i.e. not ISO/IEC 24727 authentication protocols) that are referenced within ISO/IEC 24727 is out of scope
22.	Testing of error conditions that cannot be produced by a correctly functioning implementation is out of scope
23.	Testing of proprietary services, actions and the associated creation and loading of these is out of scope.
24.	The standard shall not test application specific software module.
25.	Checking of CIA updates is out of scope.

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5.1.4 GCI under test:

The GCI under test shall be submitted to test that shall confirm the following minimum set features:

- Whenever procedural elements are present, all the incoming APDUs that are part of the GCI shall be submitted to these procedural elements. Therefore, the GCI under test capability to handle the request and response APDUs shall be tested. The GCI under test shall pass on the request APDU from SAL to Procedural Elements, and the response APDU from the ICC to procedural elements. The procedural elements testing component shall require a “probe” to prove such APDU processing.

- GCI under test shall be capable to parse CCD and to ensure availability of interoperability data to the SAL. The CCD content shall be retrieved according to the bootstrap mechanism. Some CCD data object values may be loaded from remote location specified in the CCD.

- GCI under test capability to deliver upon request the CCD content to the SAL.

- ISO/IEC 24727-2 interface (request and response) (only for C language binding).

- GCI under test capability to handle request APDUs with CLA=’FF’ (packageA) intended for GCI internal/resources management

- GCI under test capability to forward any APDU that is neither part of ISO/IEC 24727-2 Table 2 nor Table 3 directly to ICC without any processing.

- GCI under test capability to call IFD-API functions.

5.1.5 SAL under test:

The SAL under test shall be submitted to test that shall confirm the following minimum set features:

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- SAL shall be able to recover the whole data mapping between off-card data representation an on-card data representation using the CIA containing within the ACD.

- SAL shall be enabled to parse the CIA values and to generate all the discovery data and to encode it according to ISO/IEC 24727-3, Annex C ASN.1 normative definitions.

- Upon or prior to the call to CardApplicationEndSession action, any change impacting the CIA entries (as per ISO/IEC 24727-2) that occurred during the transaction shall be updated in the CIA that is either stored or referenced in the ACD.

- The retrieved (by ISO/IEC 24727-3) CIA must reflect the card implementation and any changes that have been applied.

- ISO/IEC 24727-3 interface (request and response) (only for C language binding), generated APDUs and ASN.1 DER-TLV (for proxies)

- The off-card SAL shall be enabled to act on client-application requests according to the related ACL (e.g denied actions shall not be translated into APDUs)

- SAL claiming compatibility with a given Authentication Protocol shall prove capability to translate generic requests into specific set of request APDUs according to the Protocol OID description and the rest of information provided in the DID bearing this Protocol.

- Authentication protocols that are internal to ISO/IEC 24727-3 are tested using a trusted test implementation below the ISO/IEC 24727-3 layer.

- Authentication protocols that are internal to ISO/IEC 24727-3 are tested using a trusted test ISO/IEC 24727-3 implementation.

- Specified authentication protocol algorithms and their use are verified by the trusted test components.

- DIDCreate and DIDUpdate requests shall uniquely be executed by the SAL according to existing specification of these requests parameters in ISO/IEC 24727-3, Annex A.

- SAL shall be enabled to translate ExecuteAction requests into IFD-API calls without resorting to GCI under test layer. The SAL shall be able to extract the parameter “request” from within ExecuteAction call and to deliver it unchanged as InputAPDU parameter to the Transmit command from IFD-API.

- SAL shall be enabled to process post-issuance personalization data as a separate package of requests. This package is comprised of the following SAL-API calls:

    i) DIDCreate

    ii) DIDUpdate

    iii) DataSetCreate

    iv) DSICreate

5.1.6 Conformance attainment

For a component-under-test to attain conformance all its mandatory features, as defined in all other parts of ISO/IEC 24727, shall be implemented.

All tests contained within ISO/IEC 24727-5 shall be mandatory for each relevant component-under-test.

Distinct tests shall identify the component-under-test interface behaviour.

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A test report shall be generated stating what aspects of the component-under-test interface do and do not conform to ISO/IEC 24727.

Testing shall be performed on a single component or on component-configurations comprising one or more of the stack models specified in ISO/IEC 24727-4.

The following clause identifies a conformance-vector comprised of a tuple of dimension-of-conformance. The dimensions of this conformance-vector are defined by ISO/IEC 24727 component, ISO/IEC 24727-3 authentication protocol, ISO/IEC 24727-4 stack, ISO/IEC 24727-4 marshalling and cryptographic algorithms.

5.2 Conformance vector

Four distinct criteria can be identified for each testable implementation. These criteria are entitled dimension-of-conformance.

1) ISO/IEC 24727 component

2) ISO/IEC 24727-3 authentication protocol

3) ISO/IEC 24727-4 stack configuration

4) ISO/IEC 24727-4 marshalling

5) ISO/IEC 24727 cryptographic algorithms

A bit-mask is applied to the possible values of these dimensions-of-conformance and by concatenating these bit-masks to form a five-tuple, a conformance-vector is established that will provide a quantitative indicator of the level of conformance of a particular testable-interface. Table 2 provides values for the dimension-of-conformance.

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Table 2 — Conformance vector

	Dimension-of-conformance				
Conformance indicator (bit-set i.e. least significant bit)	**ISO/IEC 24727 component (tuple 1)**	**ISO/IEC 24727-3 authentication protocol (tuple 2)**	**ISO/IEC 24727-4 stack (tuple 3)**	**ISO/IEC 24727-3 marshalling (tuple 4)**	**ISO/IEC 24727-3 cryptographic algorithms (tuple 5)**
1	Native implementation	Simple Assertion	Loyal stack	DER-TLV	ISO/IEC 18033-3
2	ISO/IEC 24727-2 Package A	Asymmetric Internal Authenticate	Opaque ICC stack	SOAP	AES (128-bit key)
3	ISO/IEC 24727-2 Package B	Asymmetric External Authenticate	Remote loyal stack	APDU	AES (192-bit key)
4	ISO/IEC 24727-3	Symmetric Internal Authenticate	ICC resident stack	TLS forward protocol	AES (256-bit key)
5	Trusted channel interface	Symmetric External Authenticate	Remote ICC stack	TLS backward protocol	DES
6	Interface device API	Compare	RFU	RFU	3DES
7	RFU	PIN Compare	RFU	RFU	RC2
8	RFU	Biometric Compare	RFU	RFU	RC3
9	RFU	Mutual Authentication with Key Establishment	RFU	RFU	RSA
10	RFU	Client-Application Mutual Authentication with Key Establishment	RFU	RFU	DSA
11	RFU	Client-Application Asymmetric External Authenticate	RFU	RFU	EC
12	RFU	Modular Extended Access Control Protocol (M-EAC)	RFU	RFU	RSA-OAEP
13	RFU	Key Transport with mutual authentication based on RSA	RFU	RFU	md2

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	Dimension-of-conformance				
Conformance indicator (bit-set i.e. least significant bit)	**ISO/IEC 24727 component (tuple 1)**	**ISO/IEC 24727-3 authentication protocol (tuple 2)**	**ISO/IEC 24727-4 stack (tuple 3)**	**ISO/IEC 24727-3 marshalling (tuple 4)**	**ISO/IEC 24727-3 cryptographic algorithms (tuple 5)**
14	RFU	Age Attainment	RFU	RFU	md5
15	RFU	Asymmetric Session Key Establishment	RFU	RFU	sha1
16	RFU	Secure PIN Compare	RFU	RFU	sha224
17	RFU	EC Key Agreement with Card-Application Authentication	RFU	RFU	sha256
18	RFU	EC Key Agreement with Mutual Authentication	RFU	RFU	sha384
19	RFU	Simple EC-DH Key Agreement	RFU	RFU	sha512
20	RFU	GP Asymmetric Authentication	RFU	RFU	ID-HMAC
21	RFU	GP Symmetric Authentication (Explicit Mode)	RFU	RFU	HMAC-MD5
22	RFU	GP Symmetric Authentication (Implicit Mode)	RFU	RFU	DH
23	RFU	RFU	RFU	RFU	X9-63-scheme
24	RFU	RFU	RFU	RFU	SECG-scheme
25	RFU	RFU	RFU	RFU	RFU

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Conformance indicator bit set from 26 to 32 shall be Reserved for Future Use (RFU).

5.3 Structure of tests

Specification of conformance tests shall address three distinct testing domains:

1) Basic (atomic) tests across the allowed range of status responses
2) Processing tests
3) Discoverability tests
4) Operational tests

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Considering that an application programming interface is comprised of distinct requests or functions. For each request or function, a series of tests shall be defined to exercise the request and elicit the complete range of status responses that a specific request can support. These are the basic or "atomic" tests.

Figure 1 — Testable data in transfer between CUTs depicts the CUT and the data transered between each component. When testing components in the ICC-Resident stack the protocol structure as well as the data encapsulated within that protocol shall be tested. Data transferred between non ICC-Resident stack model components can vary to a large degree, therefore only the protocol structure shall be tested and not the data contained within.

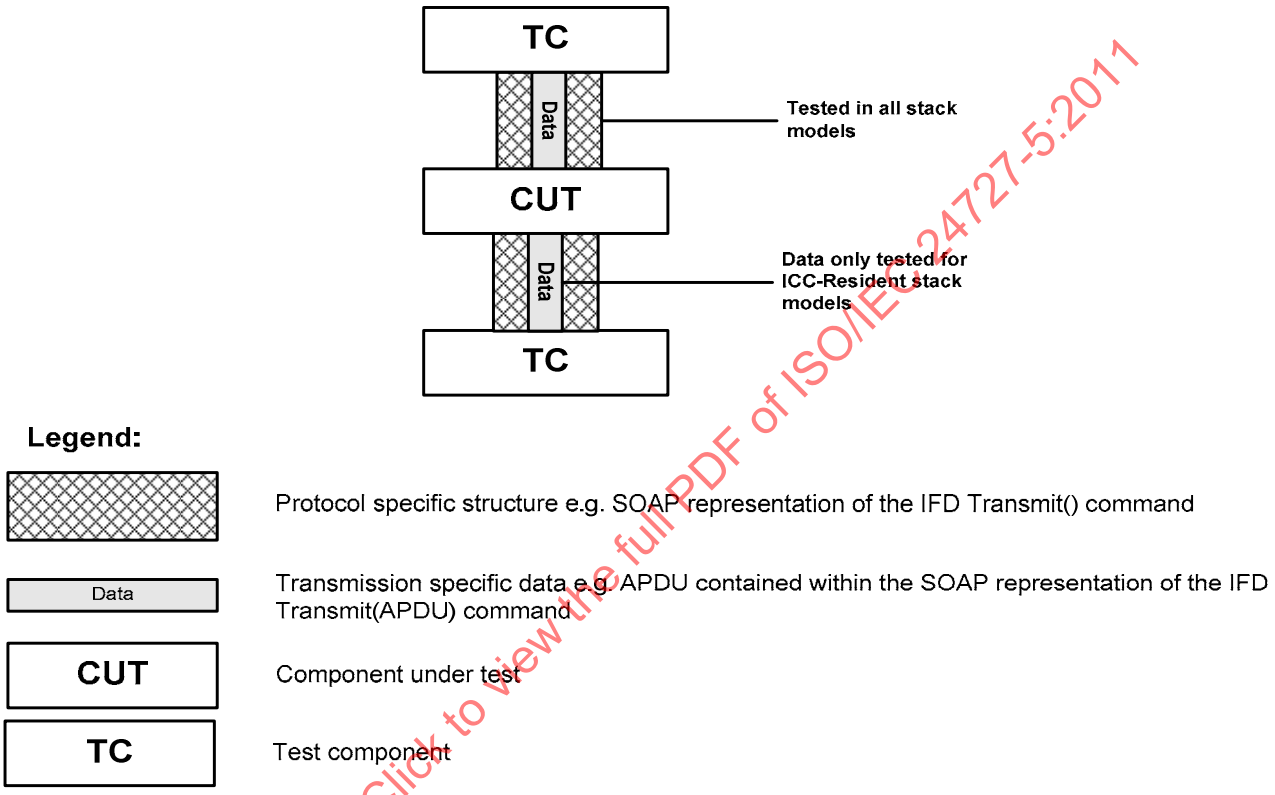


Figure 1 — Testable data in transfer between CUTs

A more comprehensive set of tests shall be defined to completely exercise all of the requests that the specific interface encompasses. Such tests shall comprise inter-related tests; that is, testing sequences of requests that may be related through their individual impact on the target(s) of the interface. These sets of tests are refered to as processing tests.

An alternative yet still comprehensive set of tests shall be defined to fully exercise the complete life-cycle of the targets of interfaces. These sets of tests are aimed at exercising application level utilization of an interface. These sets of tests are termed operational tests.

In the following clauses, sets of tests in these three domains shall be specified.

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5.4 Test environment

5.4.1 Stack configurations

The components that will facilitate the testing shall be implemented as a full network stack, that both provide a programming language agnostic API as well as the program language specific binding interface. Each test component must be interchangeable with a given component-under-test. No ISO/IEC 24727 implementation shall be tested remotely i.e. all elements to be tested shall be tested in the given test environment. Two possible constraints apply to the components under test.

If the component under test is intended to reside on the same machine as the stack used for testing, it shall provide a program specific language binding for the interfaces through which it communicates.

If the component under test is intended to be accessed through a network, it shall provide network connectivity by supporting at least one standard marshalling and at least one secure transmission protocol for the interfaces it supports.

5.4.2 Card-application emulators

Within the stack used for testing, a card emulator or card-application emulator (depending on what is to be tested) may be used instead of an actual smart card.

5.4.3 Verification and logging capability of components

Each test component shall have the capability to verify that all action performed upon it and commands received by it are valid. A log shall be kept of all actions and input and output parameters for a given component. This log may be generated through an internal debugging system or a man in the middle interception between components. The generated log shall contribute to the final conformance test report.

5.4.4 Procedural element

A test procedural element shall exist and be used during ISO/IEC 24727-2 conformance testing. The test procedural element shall take the test APDU as an input argument and forward that APDU to the GCI this process is described in detail in clause 6.2. The purpose of the test procecdural element is not to test the functionality of a given procedural element, but rather the ISO/IEC 24727-2 implementation under test conformance to integrate procedural elements.

6 Components

6.1 Service access layer API

6.1.1 Basic tests

All service actions defined in ISO/IEC 24727-3 shall be tested according to clauses 6 through to and including clause 12 of ISO/IEC 24727-3 and the returned values shall be checked to be compliant to ISO/IEC 24727-3, clauses 6 through to and including clause 12.

6.1.2 Discoverability tests

Figure 2 — Discoverability testing ISO/IEC 24727-3 implementation shows the structure of the component under test for an ISO/IEC 24727-3 implementation.

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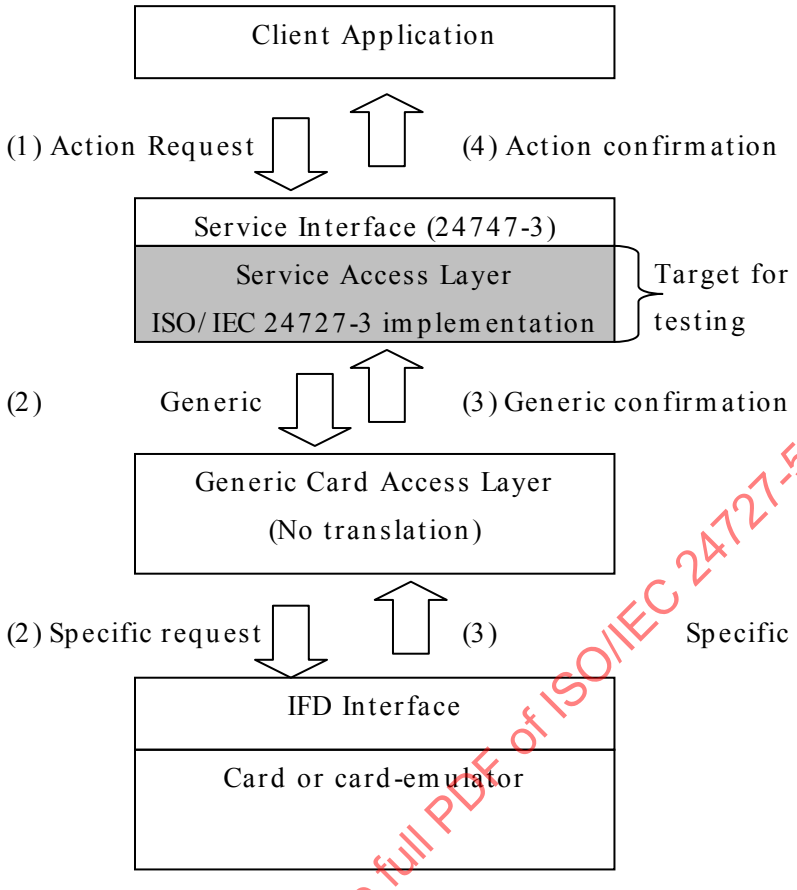


Figure 2 — Discoverability testing ISO/IEC 24727-3 implementation

The purpose of the test is to evaluate that the CUT i.e. the SAL shall be capable to bootstrap the CIA component retrieved from the CCD or from a location as defined within the CCD.

Figure 3 — Discoverability test for ISO/IEC 24727-3 with TC ICC depicts how a test-component (TC) shall be used to test ISO/IEC 24727-3 discoverability via consumption of a trusted procedural element that has been discovered from the TC components.

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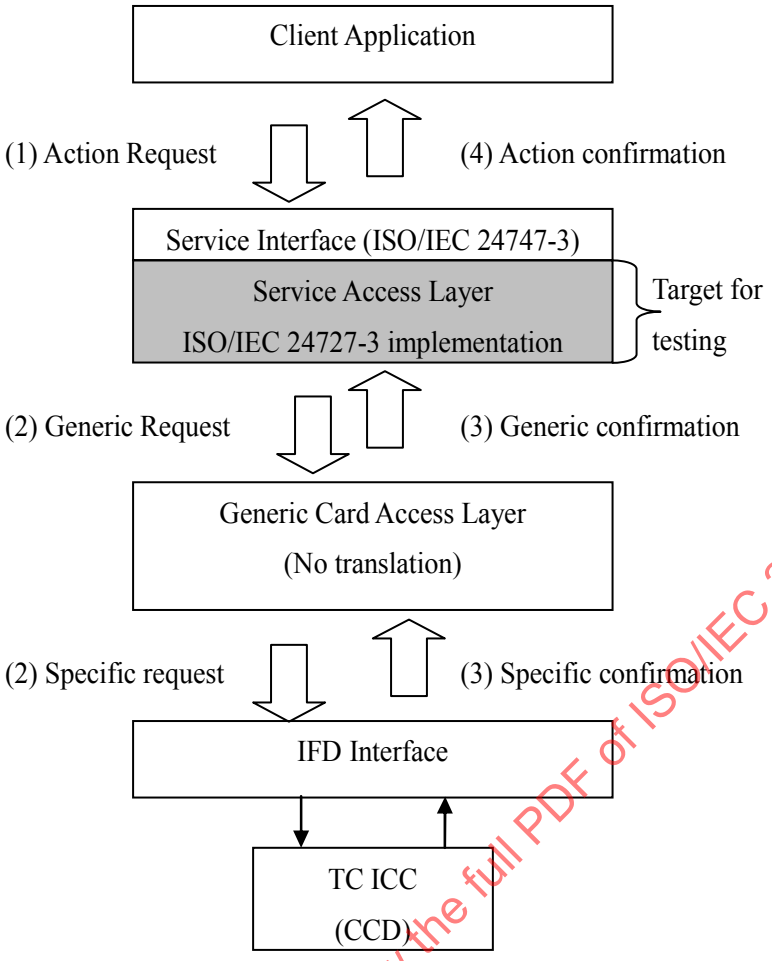


Figure 3 — Discoverability test for ISO/IEC 24727-3 with TC ICC

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These tests shall use a trusted TC ICC or equivalent software module (e.g. card-application-emulator) that contains a CCD that will perform specific mapping between the off-card data representation and the on-card data representation as defined below.

The test shall use a TC ICC or card-application-emulator to bootstrap a Cryptographic Information Application (CIA) component that shall perform:

— An action that takes a DSIName as a parameter. The mapping between the DSIName (i.e. off-card data representation) and the file identifier (i.e. on-card data representation) is contained with in the CIA of the trusted TC ICC. The test shall confirm that the SAL has correctly performed the mapping between the off-card DSIName and the on-card file identifier. If a non ICC-Residential stack model is under test that does not cater for Package "A" commands as specified in ISO/IEC 24727-2 clause 5.1.3 Table 2 then these tests shall not be performed.

— The required actions in order to create a DSI (e.g. DSIName = DSI1). The session with the TC ICC shall be ended and the connection terminated. A new connection to the TC ICC shall be established and the CIA shall be bootstrapped during the Initialize action. An action shall be performed that takes a DSIName (i.e. DSI1) as a parameter. The mapping between the DSIName (i.e. off-card data representation) and the file identifier (i.e. on-card data representation) has been created during the previous sequence and shall be contained with in the CIA of the trusted TC ICC. The test shall confirm that the SAL has correctly performed the mapping between the off-card DSIName (i.e. DSI1) and the on-card file identifier that was created during the previous sequence. If a non ICC-Residential stack model is under test that does not cater for Package "B" commands as specified in ISO/IEC 24727-2 clause 5.1.3 Table 2 then these tests shall not be performed.

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6.2 Generic card interface

6.2.1 Basic test

All commands defined in ISO/IEC clause 5.1.3, package A shall be tested according to the limitations given in Table 2 of ISO/IEC 24727-2 and the status returned shall be checked to be compliant to ISO/IEC 24727-2, clause 5.3. Commands defined in ISO/IEC 24727-2, clause 5.3 package B, may be subject to the same procedure

6.2.2 Processing tests

All GCI APDUs defined in ISO/IEC 24727-2 clause 5.1.3 Table 2 shall trigger the *"Transmit"* function of the IFD API, with the input of that *"Transmit"* function being the APDUs generated by the procedural element.

The ENVELOPE command defined in ISO/IEC 24727-4 clause 5.5 shall be the input and trigger the *"Transmit"* function of the IFD API without being passed into the procedural element.

The following GCI APDUs defined in ISO/IEC 24727-2 clause 5.1.3 Table 3 shall not trigger a request of the IFD API but shall be processed within the GCI itself i.e. these are not passed into the procedural element:

- SELECT PROCEDURAL ELEMENT (CLA = 'FF')
- GET DATA (CLA = 'FF')
- PUT DATA (CLA = 'FF')

Table 3 — GCI commands to IFD API mapping shall map the GCI APDUs defined in ISO/IEC 24727-2 clause 5.1.3 Table 3 to the relevant IFD API functions.

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Table 3 — GCI commands to IFD API mapping

	COLD RESET (CLA = 'FF')	*WARM RESET (CLA = 'FF')*	*DEACTIVATE CONTACTS (CLA = 'FF')*	*DEACTIVATE CONTACTS AND EJECT (CLA = 'FF')*	*LIST READERS (CLA = 'FF')*
Establish Context	X	X			
ReleaseContext	X	X			
ListIFDs					X
GetIFDCapabilities					
GetStatus					
Wait					
Cancel					
ControlIFD	X	X		X	
Connect	X	X			
Disconnect	X	X	X	X	
BeginTransaction					
EndTransaction					
Transmit					
VerifyUser					
ModifyVerificationData					
Output					
SignalEvent					

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6.2.3 Discoverability tests

Figure 4 — Discoverability testing ISO/IEC 24727-2 implementation shows the structure of the component under test for an ISO/IEC 24727-2 implementation.

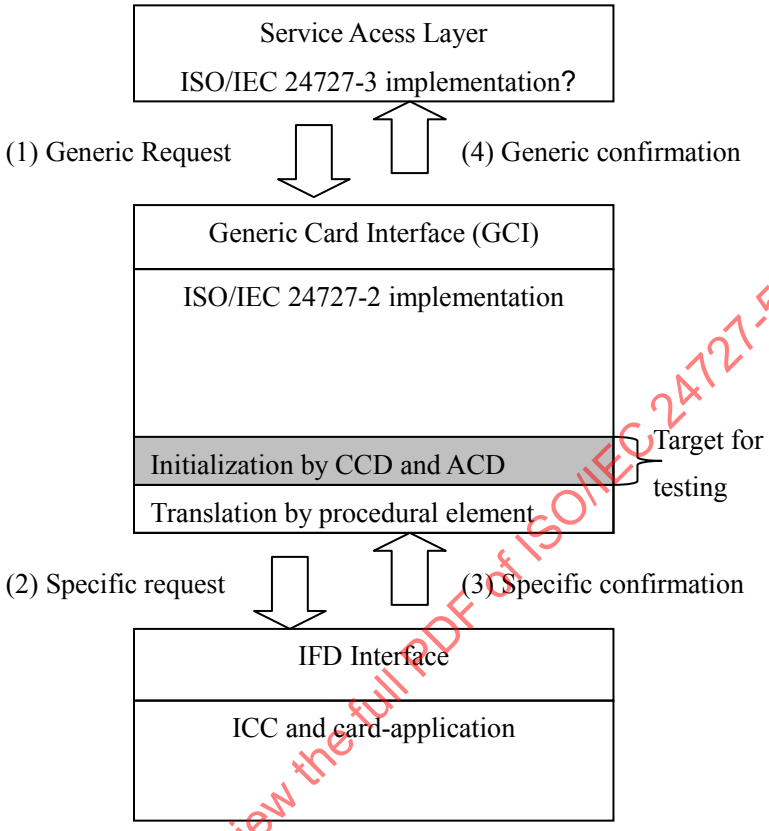


Figure 4 — Discoverability testing ISO/IEC 24727-2 implementation

The purpose of the test is to evaluate that the software module under test has the interoperable functions, especially following three functions specific to ISO/IEC 24727-2.

APDU request/response defined in clause 5.1.3 Table 2 of ISO/IEC 24727-2 shall not be independently tested.

The translation of ISO/IEC 24727-2 defined APDUs to any commands by the procedural element shall not be tested.

6.2.3.1 Discovery Mechanism

Testing shall evaluate that the software module under evaluation supports all CCD and ACD retrieval procedures defined in ISO/IEC 24727-2 and returns the expected return codes. The return code may differ within the content of retrieved CCD and ACD information, especially with and without signature on the procedural element.

6.2.3.2 Testing Mechanism

Figure 5 — Discoverability test for ISO/IEC 24727-2 with TC ICC depicts how a test-component (TC) shall be used to test ISO/IEC 24727-2 discoverability via consumption of a trusted procedural element that has been discovered from the TC components.

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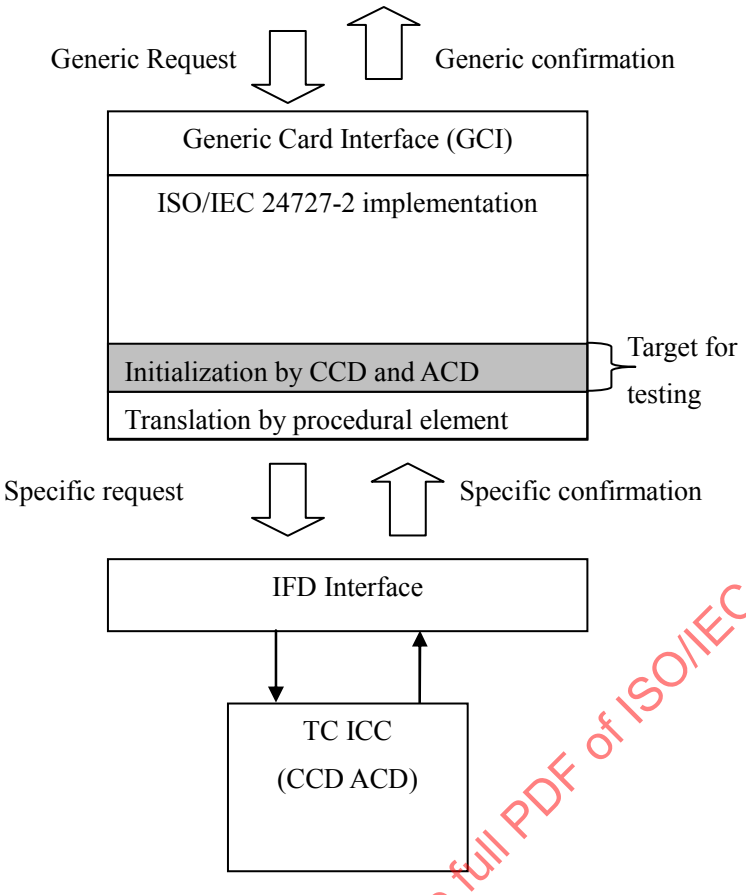


Figure 5 — Discoverability test for ISO/IEC 24727-2 with TC ICC

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These tests shall use a trusted TC ICC or equivalent software component (e.g. card-application-emulator) that contains a CCD and ACD that will perform specific APDU translationas defined below.

The test shall use a TC ICC or card-application-emulator to bootstrap a procedural element that shall:

— Receive a request APDU as defined in ISO/IEC 24727-2 clause 5.1.3 Table 2 and transform the class byte from '00' to '01' i.e. the request APDU passed into the procedural element shall contain a CLA = '00' and the output (i.e. the request APDU) from the procedural element request APDU shall contain a CLA '01'.

— Receive a response APDU with a status word of '9000' and transform the status word to '9001' i.e. the response APDU passed into the procedural element shall have a SW1 = '90' and SW2 = '00' the output from the procedural element shall contain a response APDU that shall have a SW1 = '90' and SW2 = '01'.

6.2.4 Generic card interface acted on ISO/IEC 24727-2 implementation (i.e. CLA = "FF")

6.2.4.1 Basic test

The support of commands with CLA=FF defined in ISO/IEC 24727-2 clause 5.1.3, Table 3 are not necessarily supported at the GCI.

If the implementation is expected to support them, they shall be tested according to the limitations given in Table 3 of ISO/IEC 24727-2 and the status returned shall be checked to be compliant to ISO/IEC 24727-2, clause 5.3

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6.2.4.2 Application oriented tests

The purpose of those tests is to verify that the GCAL implementation translates correctly the APDUs received at the GCI into the proper command at the IFD API

6.3 Interface device API

The IFD API shall be tested by intercepting the data communication flow between the CUT during operational testing as defined in clause 10. The format of the IFD data encapsulation mechanism shall be verified; the actual transmitted data shall only be verified for data sent between ICC-Resident stack components (i.e. Appendix A) as this is the only stack model for which the transfer data shall not vary.

Refere to Annex E for example data structures.

6.4 Trusted channel API

The trusted channel API is implementation specific and therefore cannot be tested in a generic way. In order for an ISO/IEC 24727 implementation to claim trusted channel compliance the API shall be tested using a approved ISO/IEC 24727 binding.

The trusted channel consists of two remote components and each transmission of data shall be tested by comparing the input into the TC_API_Write function with the corresponding output of the TC_API_Read function.

6.4.1 TC_API_Open

This function shall be invoked during the ISO/IEC 24727-3 Initialize action if the TC channel is not already open.

Tests shall confirm that a channelHandle is returned by this function upon processing valid input parameters as defined by ISO/IEC 24727-4 clause 7.3.1.

6.4.2 TC_API_Close

This function shall be invoked during the ISO/IEC 24727-3 Terminate action if the TC channel was opened using the ISO/IEC 24727-3 Initialize action.

Tests shall confirm that the tursted channel is closed by this function upon processing the channelHandle input parameter of a valid established trusted channel as defined by ISO/IEC 24727-4 clause 7.3.2.

6.4.3 TC_API Write

This function shall be invoked during all ISO/IEC 24727-3 actions.

Tests shall confirm that a message can be written to the trusted channel as defined by ISO/IEC 24727-4 clause 7.3.4.

6.4.4 TC_API Read

This function shall be invoked during all ISO/IEC 24727-3 actions.

Tests shall confirm that a message can be read from the trusted channel as defined by ISO/IEC 24727-4 clause 7.3.3.

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6.5 SAL on-card implementation component testing

The SAL on-card implementation is the only on-card implementation that shall be tested. The test cases for this CUT shall be identical to those of the SAL off-card component, that is the actions and their associated parameters shall be DER/TLV encoded and wrapped in either the APDU or TCP/IP web server based interface as defined in ISO/IEC 24727-4.

7 Authentication protocols

7.1 General

An authentication protocol consists of two components, the on-card implementation and the off-card implementation. The off-card implementation of the authentication protocol may either be implemented in the SAL layer or by the client application.

The whole authentication protocol details are handled by the SAL unless the DIDAuthenticate() or CardApplicationStartSession() request conveys authenticationProtocolData that can be processed by both the client-application and the SAL.

For an authentication protocol to achieve conformance, two types of tests shall be performed:

1) The off-card CUT shall be tested independently by using a card-application emulator that shall provide the required on-card functionality of the authentication protocol under test.

2) The on-card CUT shall be tested in conjunction with the off-card CUT.

All authentication protocols shall be actioned as described in ISO/IEC 24727-3 and all necessary authenticationProtocolData parameters shall be constructed as defined in ISO/IEC 24727-2, Annex A.

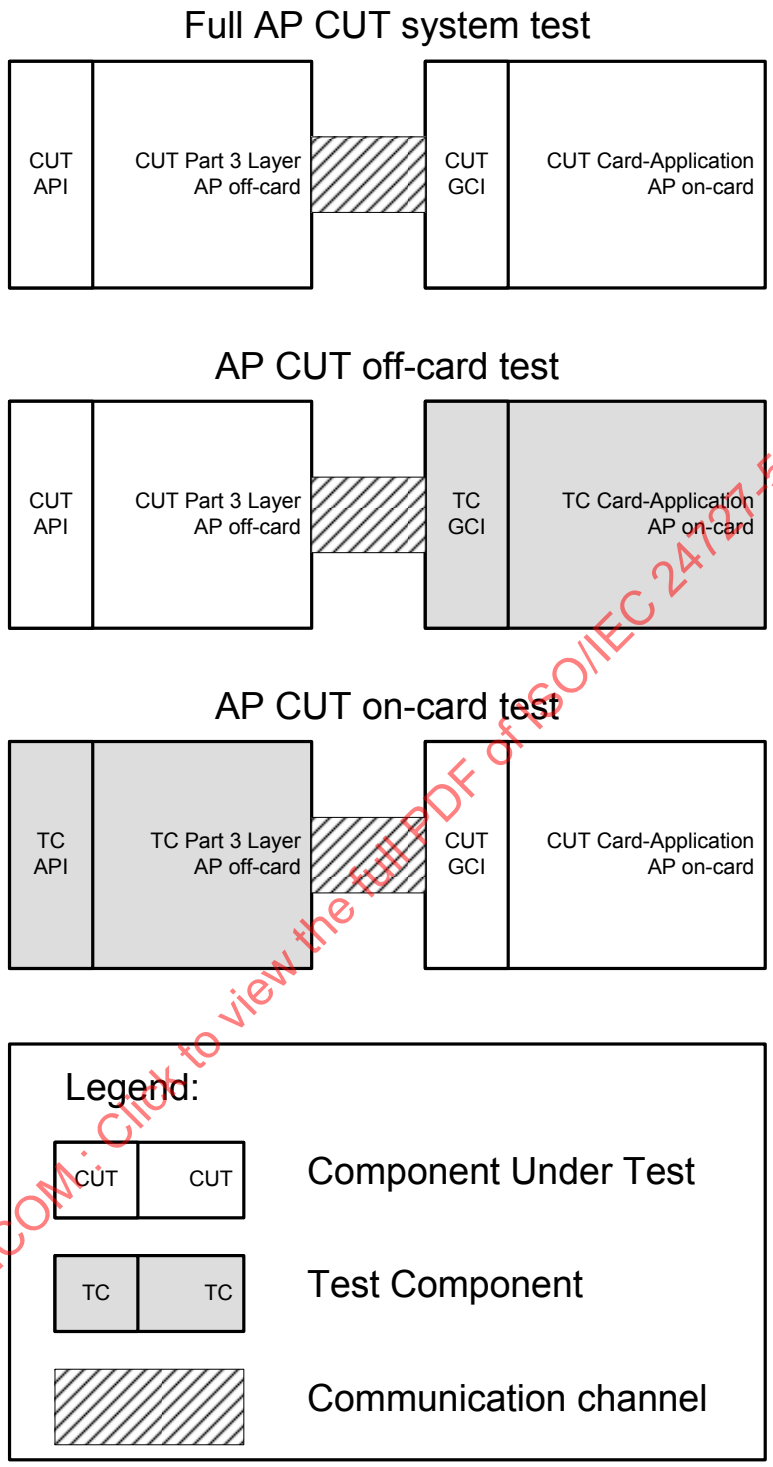
Authentication protocols shall be tested by the implementor providing the on-card and off-card CUT. The testing facility shall provide the equivelant trusted on-card and off-card TC. The CUT shall be verified by passing the test scenarios defined in clauses below that shall be executed using the following combinations of CUT and TC:

- Full authentication protocol components under test system testing
- Authentication protocol components under test off-card testing, where the on-card CUT is replaced with the on-card TC.
- Authentication protocol components under test on-card testing, where the off-card CUT is replaced with the off-card TC.

This concept is described in Figure 6 — Authentication protocol testing strategy.

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Figure 6 — Authentication protocol testing strategy

7.2 SAL security test sequences

The SAL test sequences for authentication protocols shall not test any functionality of the qualifier that is contained within the DID for a specific authentication protocol.

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7.2.1 Cryptographic operations

All authentication protocols shall be tested for the cryptographic actions that they support as well as for the correct error condition i.e. return codes, when a specific cryptographic action is not supported by the authentication protocol under test.

7.2.1.1 Test sequences for supported cryptographic functionality

Table 4 through Table 10 define the tests for cryptographic actions if these are supported by the authentication protocol under test.

7.2.1.1.1 Encipher

Table 4 — Encipher – Action supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	Encipher	As defined in ISO/IEC 24727-3 clause 10.2	return code = API_OK cipherText = the cipher of the plain text passed into this action	Test for correct execution of the Encipher action

7.2.1.1.2 Decipher

Table 5 — Decipher – Action supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	Decipher	As defined in ISO/IEC 24727-3 clause 10.3	return code = API_OK plainText = plain text that is the deciphered cipher text passed into this action	Test for correct execution of the Decipher action

7.2.1.1.3 GetRandom

Table 6 — GetRandom – Action supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	GetRandom	As defined in ISO/IEC 24727-3 clause 10.4	return code = API_OK random = random value	Test for correct execution of the GetRandom action

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7.2.1.1.4 Hash

Table 7 — Hash – Action supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	Hash	As defined in ISO/IEC 24727-3 clause 10.5	return code = API_OK hash = hash of the message passed in	Test for correct execution of the Hash action

7.2.1.1.5 Sign

Table 8 — Sign – Action supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	Sign	As defined in ISO/IEC 24727-3 clause 10.6	return code = API_OK signature= signature of the message passed in	Test for correct execution of the Sign action

7.2.1.1.6 VerifySignature

Table 9 — VerifySignature – Action supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	VerifySignature	As defined in ISO/IEC 24727-3 clause 10.7	return code = API_OK	Test for correct execution of the VerifySignature action
2	VerifySignature	As defined in ISO/IEC 24727-3 clause 10.7 An invalid signature shall be passed into this action.	return code = API_INVALID_SIGNATURE	Test for an error condition when an invalid signature is passed into this action.

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7.2.1.1.7 VerifyCertificate

Table 10 — VerifyCertificate – Action supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	VerifyCertificate	As defined in ISO/IEC 24727-3 clause 10.8	return code = API_OK	Test for correct execution of the VerifyCertificate action
2	VerifyCertificate	As defined in ISO/IEC 24727-3 clause 10.8 A certificate with an invalid signature shall be passed into this action.	return code = API_INVALID_SIGNATURE	Test for an error condition when a certificate with an invalid signature is passed into this action.

7.2.1.2 Test sequences for unsupported cryptographic functionality

Table 11 through Table 17 define the tests for cryptographic actions if these are not supported by the authentication protocol under test.

7.2.1.2.1 Encipher

Table 11 — Encipher – Action not supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	Encipher	As defined in ISO/IEC 24727-3 clause 10.2	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION	Test for error condition as this action shall not be supported

7.2.1.2.2 Decipher

Table 12 — Decipher – Action not supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	Decipher	As defined in ISO/IEC 24727-3 clause 10.3	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION	Test for error condition as this action shall not be supported

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7.2.1.2.3 GetRandom

Table 13 — GetRandom – Action not supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	GetRandom	As defined in ISO/IEC 24727-3 clause 10.4	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION	Test for error condition as this action shall not be supported

7.2.1.2.4 Hash

Table 14 — Hash – Action not supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	Hash	As defined in ISO/IEC 24727-3 clause 10.5	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION	Test for error condition as this action shall not be supported

7.2.1.2.5 Sign

Table 15 — Sign – Action not supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	Sign	As defined in ISO/IEC 24727-3 clause 10.6	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION	Test for error condition as this action shall not be supported

7.2.1.2.6 VerifySignature

Table 16 — Verify Signature – Action not supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	VerifySignature	As defined in ISO/IEC 24727-3 clause 10.7	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION	Test for error condition as this action shall not be supported

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7.2.1.2.7 VerifyCertificate

Table 17 — VerifyCertificate – Action not supported

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	VerifyCertificate	As defined in ISO/IEC 24727-3 clause 10.8	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION	Test for error condition as this action shall not be supported

7.2.2 Simple assertion

Table 18 defines the test for Simple Assertion defined in clause A.3 of ISO/IEC 24727-3 if supported.

Table 18 — Authentication protocol sequence – Simple assertion

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = empty qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = empty	Test for correct execution of the DIDGet action
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = empty qualifier = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION	Test for error condition as this action shall not be supported
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported

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Row number	*Action*	*Parameters*	*Return data*	*Description*
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action

7.2.3 Asymmetric internal authenticate

Table 19 defines the test for Asymmetric Internal Authenticate defined in clause A.4 of ISO/IEC 24727-3 if supported.

Table 19 — Authentication protocol sequence – Asymmetric internal authenticate

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.4.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.4.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.4.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty	return code = API_OK authenticationProtocolData = result(true)	Test for correct execution of the DIDAuthenticate action
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty	return code = API_OK authenticationProtocolData = result(false)	Test for correct execution of the DIDAuthenticate action, when the asymmetric internal authentication fails. In order to test this scenario an incorrect private key shall be used to verify the signature that is returned from the smartcard.

7.2.4 Asymmetric external authenticate

Table 20 defines the test for Asymmetric External Authenticate defined in clause A.5 of ISO/IEC 24727-3 if supported.

Table 20 — Authentication protocol sequence – Asymmetric external authenticate

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.5.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.5.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.5.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty that is, the samConnectionHandle option was used in the request to DIDAuthenticate	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = privateKey	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
7	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = privateKey an invalid private key shall be passed into this action in order to generate the required return data	return code = API_INVALID_PARAMETER authenticationProtocolData = empty	Test for an error condition of the DIDAuthenticate action that is, an incorrect private key shall be passed into this action.

7.2.5 Symmetric internal authenticate

Table 21 defines the test for Symmetric Internal Authenticate defined in clause A.6 of ISO/IEC 24727-3 if supported.

Table 21 — Authentication protocol sequence – Symmetric internal authenticate

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.6.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.6.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC	return code = API_OK	Test for correct execution of the DIDUpdate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
		24727-3 Annex A.6.2 qualifier = empty		
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty that is, the samConnectionHandle option was used in the request to DIDAuthenticate	return code = API_OK authenticationProtocolData = Boolean(true)	Test for correct execution of the DIDAuthenticate action
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = secretKey	return code = API_OK authenticationProtocolData = Boolean(true)	Test for correct execution of the DIDAuthenticate action
7	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = secretKey that is, an invalid secretKey shall be passed in to test the expected return parameters	return code = API_OK authenticationProtocolData = Boolean(false)	Test for correct execution of the DIDAuthenticate action, when the symmetric internal authentication fails. In order to test this scenario an incorrect secret key shall be used to verify the signature that is returned from the smartcard.

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7.2.6 Symmetric external authenticate

Table 22 defines the test for Symmetric External Authenticate defined in clause A.7 of ISO/IEC 24727-3 if supported.

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Table 22 —Authentication protocol sequence – Symmetric external authenticate

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.7.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.7.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.7.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty that is, the samConnectionHandle option was used in the request to DIDAuthenticate	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = secretKey	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action
7	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = secretKey that is, an invalid secretKey shall be passed in to test the expected return parameters	return code = API_INVALID_PARAMETER authenticationProtocolData = empty	Test for error condition of the DIDAuthenticate action, when the symmetric internal authentication fails. In order to test this scenario an incorrect secret key shall be used to verify the signature that is returned from the smartcard.

7.2.7 Compare

Table 23 defines the test for Compare defined in clause A.8 of ISO/IEC 24727-3 if supported.

Table 23 — Authentication protocol sequence – Compare

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.8.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.8.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.

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Row number	*Action*	*Parameters*	*Return data*	*Description*
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.8.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = markerTemplate	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = markerTemplate	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = markerTemplate that is, a marker template that is longer than the maxDataLength shall be passed in to test the expected return parameters	return code = API_INVALID_PARAMETER authenticationProtocolData = empty	Test for error condition of the DIDAuthenticate action, when the symmetric internal authentication fails. In order to test this scenario a markerTemplate that is longer than the maxDataLength shall be used to verify the signature that is returned from the smartcard.

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7.2.8 PIN compare

Table 24 defines the test for PIN Compare defined in clause A.9 of ISO/IEC 24727-3 if supported.

Table 24 — Authentication protocol sequence – PIN compare

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.9.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.9.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.9.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = markerTemplate	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = markerTemplate	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = markerTemplate that is, a marker template that is longer than the maxDataLength shall be passed in to test the expected return parameters	return code = API_INVALID_PARAMETER authenticationProtocolData = empty	Test for error condition of the DIDAuthenticate action, when the symmetric internal authentication fails. In order to test this scenario a markerTemplate that is longer than the maxDataLength shall be used to verify the signature that is returned from the smartcard.

7.2.9 Biometric compare

Table 25 defines the test for Biometric Compare defined in clause A.10 of ISO/IEC 24727-3 if supported.

Table 25 — Authentication protocol sequence – Biometric compare

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.10.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.10.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.

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Row number	*Action*	*Parameters*	*Return data*	*Description*
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.10.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = MarkerAP010	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = MarkerAP010	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = MarkerAP010 that is, an invalid MarkerAP010 shall be passed in to test the expected return parameters	return code = API_INVALID_PARAMETER authenticationProtocolData = empty	Test for error condition of the DIDAuthenticate action, when the symmetric internal authentication fails. In order to test this scenario an invalid MarkerAP010 shall be used to verify the signature that is returned from the smartcard.

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7.2.10 Mutual authentication with key establishment

Table 26 defines the test for Mutual Authenticate with Key Establishment defined in clause A.11 of ISO/IEC 24727-3 if supported.

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Table 26 — Authentication protocol sequence – Mutual authentication with key establishment

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.11.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.11.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.11.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = K_seed	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = K_seed	return code = API_OK authenticationProtocolData = Boolean(true)	Test for correct execution of the CardApplicationStartSession action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
6	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = K_seed	return code = API_INVALID_PARAMETER authenticationProtocolData = Boolean(false)	Test for correct execution of the CardApplicationStartSession action, when the symmetric internal authentication fails. In order to test this scenario an incorrect key, in the off-card application, shall be used during the mutual authentication process.

7.2.11 Client-application mutual authentication with key establishment

Table 27 defines the test for Client-Application Mutual Authentication with Key Establishment defined in clause A.12 of ISO/IEC 24727-3 if supported.

Table 27 — Authentication protocol sequence — Client-application mutual authentication with key establishment

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.12.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.12.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.

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Row number	*Action*	*Parameters*	*Return data*	*Description*
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.12.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = K_seed	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty	return code = API_NEXT_REQUEST authenticationProtocolData = RND.ICC where RND is a challenge from the smartcard.	Test for correct execution of the first CardApplicationStartSession action in a sequence of two.
6	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = Data and MAC that is for mutual authentication purposes	return code = API_OK authenticationProtocolData = Data and MAC	Test for correct execution of the second CardApplicationStartSession action in a sequence of two.
7	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty	return code = API_NEXT_REQUEST authenticationProtocolData = RND.ICC where RND is a challenge from the smartcard.	Test for correct execution of the first CardApplicationStartSession action in a sequence of two.

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Row number	*Action*	*Parameters*	*Return data*	*Description*
8	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = Data and MAC that is for mutual authentication purposes, where the MAC that is passed in is incorrect in order to achieve the required error condition.	return code = API_INCORRECT_PARAMETER authenticationProtocolData = Data and MAC	Test for error condition of the second CardApplicationStartSession action in a sequence of two.

7.2.12 Client-application asymmetric external authenticate

Table 28 defines the test for Client-Application Asymmetric External Authenticate defined in clause A.13 of ISO/IEC 24727-3 if supported.

Table 28 — Authentication protocol sequence – Client-application asymmetric external authenticate

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.13.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.13.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.

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Row number	*Action*	*Parameters*	*Return data*	*Description*
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.13.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty	return code = API_NEXT_REQUEST authenticationProtocolData = nonce where nonce is a challenge from the smartcard.	Test for correct execution of the first DIDAuthenticate action in a sequence of two.
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = signature that is the signed nonce that was returned from the on-card application	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the second DIDAuthenticate action in a sequence of two.
7	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty	return code = API_NEXT_REQUEST authenticationProtocolData = nonce where nonce is a challenge from the smartcard.	Test for correct execution of the first DIDAuthenticate action in a sequence of two.

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Row number	*Action*	*Parameters*	*Return data*	*Description*
8	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = signature that is the incorrectly signed nonce (i.e. signed with the wrong private key) that was returned from the on-card application	return code = API_INCORRECT_PaRAMETER authenticationProtocolData = empty	Test for error condition of the second DIDAuthenticate action in a sequence of two.

7.2.13 Modular extended access control protocol (M-EAC)

Table 29 defines the test for Modular Extended Access Control Protocol (M-EAC) defined in clause A.14 of ISO/IEC 24727-3 if supported.

Table 29 — Authentication protocol sequence – Modular extended access control protocol (M-EAC)

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.14.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.14.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.

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Row number	*Action*	*Parameters*	*Return data*	*Description*
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.14.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = publicKeyMaterial where the publicKeyMaterial can be either a digital certificate or an asymmetric public key	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = publicKeyMaterial where the publicKeyMaterial can be either a digital certificate or an asymmetric public key	return code = API_OK authenticationProtocolData = result (true)	Test for correct execution of the DIDAuthenticate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = publicKeyMaterial where the publicKeyMaterial can be either a digital certificate or an asymmetric public key i.e. in this case a wrong publicKeyMaterial shall be supplied in order to generate the desired error condition.	return code = API_OK authenticationProtocolData = result (false)	Test the error condition of the DIDAuthenticate action where authentication failed

7.2.14 Key transport with mutual authentication based on RSA

Table 30 defines the test for Key Transport with Mutual Authentication Based on RSA defined in clause A.15 of ISO/IEC 24727-3 if supported.

Table 30 — Authentication protocol sequence – Key transport with mutual authentication based on RSA

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.15.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.15.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.15.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty	return code = API_NEXT_REQUEST authenticationProtocolData = result (true)	Test for correct execution of the DIDAuthenticate action.
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = empty	return code = API_NEXT_REQUEST authenticationProtocolData = result (true)	Test the error condition of the DIDAuthenticate action where authentication failed Note: an invalid key shall be used during the authentication process that occurs within the SAL layer.

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7.2.15 Age attainment

Table 31 defines the test for Age Attainment defined in clause A.16 of ISO/IEC 24727-3 if supported.

Table 31 — Authentication protocol sequence – Age attainment

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.16.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.16.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.16.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = attainedDate	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION	Test for error condition as this action shall not be supported

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Row number	*Action*	*Parameters*	*Return data*	*Description*
5	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = attainedDate where the attainedDate is more recent than the date of birth	return code = API_OK authenticationProtocolData = result (true)	Test for correct execution of the DIDAuthenticate action.
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = attainedDate where the attainedDate is less recent than the date of birth	return code = API_OK authenticationProtocolData = result (false)	Test the error condition of the DIDAuthenticate action where authentication failed

7.2.16 Asymmetric session key establishment

Table 32 defines the test for Asymmetric Session Key Establishment defined in clause A.17 of ISO/IEC 24727-3 if supported.

Table 32 — Authentication protocol sequence – Asymmetric session key establishment

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.15.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to

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Row number	*Action*	*Parameters*	*Return data*	*Description*
			Annex A.15.2	protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.15.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = certVerificationProcess crlAddress ocspAddress	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = certVerificationProcess crlAddress ocspAddress	return code = API_NEXT_REQUEST authenticationProtocolData = result (true)	Test for correct execution of the DIDAuthenticate action.

7.2.17 Secure PIN compare

Table 33 defines the test for Secure PIN Compare defined in clause A.18 of ISO/IEC 24727-3 if supported.

Table 33 — Authentication protocol sequence – Secure PIN compare

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.16.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.16.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.13.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK didStructure	Test for correct execution of the first DIDGet action
6	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = secure transport syntax package that contains the correct encrypted PIN that was supplied by the client application	return code = API_OK authenticationProtocolData = result (true)	Test for correct execution of the DIDAuthenticate action.
7	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK didStructure	Test for correct execution of the first DIDGet action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
8	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 11.7 with authenticationProtocolData = secure transport syntax package that contains the incorrect encrypted PIN that was supplied by the client application	return code = API_OK authenticationProtocolData = result (false)	Test for error condition of the DIDAuthenticate action when an incorrect PIN is supplied.

7.2.18 EC key agreement with card-application authentication

Table 34 defines the test for EC Key Agreement With Card-Application Authentication defined in clause A.19 of ISO/IEC 24727-3 if supported.

Table 34 — Authentication protocol sequence – EC key agreement with card-application authentication

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.17.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.17.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.

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Row number	*Action*	*Parameters*	*Return data*	*Description*
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.17.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = clientIdentifier	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = clientIdentifier	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action
6	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = clientIdentifier where the clientIdentifier is incorrect	return code = API_INCORRECT_PARAMETER authenticationProtocolData = empty	Test the error condition of the DIDAuthenticate action where authentication failed due to an incrorrect clientIdentifier

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7.2.19 EC key agreement with mutual authentication

Table 35 defines the test EC Key Agreement with Mutual Authentication for defined in clause A.20 of ISO/IEC 24727-3 if supported.

Table 35 — Authentication protocol sequence – EC key agreement with mutual authentication

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC	return code = API_OK	Test for correct execution of the DIDCreate action

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Row number	*Action*	*Parameters*	*Return data*	*Description*
		24727-3 Annex A.18.2 qualifier = empty		
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.18.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.18.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = clientIdentifier	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = clientIdentifier	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action
6	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = clientIdentifier where the clientIdentifier is incorrect	return code = API_INCORRECT_PARAMETER authenticationProtocolData = empty	Test the error condition of the DIDAuthenticate action where authentication failed due to an incrorrect clientIdentifier

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7.2.20 Simple EC-DH key agreement

Table 36 defines the test for Simple EC-DH Key Agreement defined in clause A.21 of ISO/IEC 24727-3 if supported.

Table 36 — Authentication protocol sequence – Simple EC-DH key agreement

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.19.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.19.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.19.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported
5	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action

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7.2.21 GP asymmetric authentication

Table 37 defines the test for GP Asymmetric Authenticate defined in clause A.22 of ISO/IEC 24727-3 if supported.

Table 37 — Authentication protocol sequence – GP asymmetric authentication

Row number	*Action*	*Parameters*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.20.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.20.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.20.2 qualifier = empty	return code = API_OK	Test for correct execution of the DIDUpdate action
4	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = oceCertificate securityLevel SCPParametersP1P2	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported

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Row number	*Action*	*Parameters*	*Return data*	*Description*
5	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = oceCertificate securityLevel SCPParametersP1P2	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action
6	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = oceCertificate securityLevel SCPParametersP1P2 where either oceCertificate, securityLevel or SCPParametersP1P2 are incorrect in order to establish the error condition.	return code = API_INCORRECT_PARAMETER authenticationProtocolData = empty	Test the error condition of the DIDAuthenticate action where authentication failed due to an incorrect oceCertificate, securityLevel or SCPParametersP1P2 parameter.

7.2.22 GP symmetric authentication (explicit mode)

Table 38 defines the test for GP Symmetric Authentication (Explicit Mode) defined in clause A.23 of ISO/IEC 24727-3 if supported.

Table 38 — Authentication protocol sequence – GP symmetric authenticate (explicit mode)

Row number	*Action*	*Parameters*	*Possible ISO/IEC 24727-2 command translation*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.21.2 qualifier =	• MANAGE SECURITY ENVIRONMENT • CREATE FILE • ACTIVATE FILE • SELECT • UPDATE	return code = API_OK	Test for correct execution of the DIDCreate action

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Row number	*Action*	*Parameters*	*Possible ISO/IEC 24727-2 command translation*	*Return data*	*Description*
		empty	BINARY • PUT DATA		
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	• SELECT • READ BINARY • GET DATA	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.21.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.21.2 qualifier = empty	• MANAGE SECURITY ENVIRONMENT • SELECT • UPDATE BINARY • PUT DATA	return code = API_OK	Test for correct execution of the DIDUpdate action
4	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = securityLevel	• SELECT • READ BINARY • GET DATA • GET CHALLENGE • GENERAL AUTHENTICATE • VERIFY	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported

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Row number	*Action*	*Parameters*	*Possible ISO/IEC 24727-2 command translation*	*Return data*	*Description*
5	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = securityLevel	• SELECT • READ BINARY • GET DATA • GET CHALLENGE • GENERAL AUTHENTICATE • VERIFY	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action
6	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = securityLevel Where the securityLevel shall be an incorrect parameter.	• SELECT • READ BINARY • GET DATA • GET CHALLENGE • GENERAL AUTHENTICATE • VERIFY	return code = API_INCORRECT_PARAMETER authenticationProtocolData = empty	Test the error condition of the DIDAuthenticate action where authentication failed due to an incrorrect securityLevel parameter.

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7.2.23 GP symmetric authentication (implicit mode)

Table 39 defines the test for GP Symmetric Authentication (Implicit Mode) defined in clause A.24 of ISO/IEC 24727-3 if supported.

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Table 39 — Authentication protocol sequence – GP symmetric authenticate (implicit mode)

Row number	*Action*	*Parameters*	*Possible ISO/IEC 24727-2 command translation*	*Return data*	*Description*
1	DIDCreate	As defined in ISO/IEC 24727-3 clause 11.3 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.22.2 qualifier = empty	• MANAGE SECURITY ENVIRONMENT • CREATE FILE • ACTIVATE FILE • SELECT • UPDATE BINARY • PUT DATA	return code = API_OK	Test for correct execution of the DIDCreate action
2	DIDGet	As defined in ISO/IEC 24727-3 clause 11.4	• SELECT • READ BINARY • GET DATA	return code = API_OK DIDStructure as defined in ISO/IEC 24727-3 Annex A.2.2 where marker = as defined in ISO/IEC 24727-3 Annex A.22.2	Test for correct execution of the DIDGet action Not all marker data needs to be returned, some marker data may be left empty to protect the integrity of this authentication protocol.
3	DIDUpdate	As defined in ISO/IEC 24727-3 clause 11.5 with didUpdateData where marker = as defined in ISO/IEC 24727-3 Annex A.22.2 qualifier = empty	• MANAGE SECURITY ENVIRONMENT • SELECT • UPDATE BINARY • PUT DATA	return code = API_OK	Test for correct execution of the DIDUpdate action
4	DIDAuthenticate	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	• SELECT • GENERAL AUTHENTICATE	return code = API_INAPPROPRIATE_PROTOCOL_FOR_ACTION authenticationProtocolData = empty	Test for error condition as this action shall not be supported

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Row number	*Action*	*Parameters*	*Possible ISO/IEC 24727-2 command translation*	*Return data*	*Description*
5	CardApplicationStartSession	As defined in ISO/IEC 24727-3 clause 7.4 with authenticationProtocolData = empty	• SELECT • GENERAL AUTHENTICATE	return code = API_OK authenticationProtocolData = empty	Test for correct execution of the DIDAuthenticate action

8 Secure messaging

Secure messaging shall be tested by securing a specific APDU with the symmetric keys as defined below. All expected results shall be met in order to comply with ISO/IEC 24727-4 secure messaging.

The session encryption key shall be:

```
E0:E1:E2:E3:E4:E5:E6:E7:E8:E9:EA:EB:EC:ED:EE:EF
```

The session MAC key shall be:

```
F0:F1:F2:F3:F4:F5:F6:F7:F8:F9:FA:FB:FC:FD:FE:FF
```

The encryption and MAC algorithms to be used for secure messaging are defined in ISO/IEC 24727-4 Annex A.

The request APDU payload data shall be:

```
A1:A2:A3:A4:A5:A6:A7:A8:A9:AA:AB:AC:AD:AE:AF
```

The original request APDU shall be (the envelope command is to be used for this test):

```
00:C2:00:00:0F:A1:A2:A3:A4:A5:A6:A7:A8:A9:AA:AB:AC:AD:AE:AF:00
```

The send sequence counter (SSC) for the encryption of the request APDU shall be:

```
D0:D1:D2:D3:D4:D5:D6:D7:D8:D9:DA:DB:DC:DD:00:03
```

The MAC input data shall be:

```
0C:C3:00:00:80:00:00:00:00:00:00:00:00:00:00:00:85:20:12:4F:F4:BA:0E:EF:2D:7B:2E:
95:99:29:D2:BC:F2:D2:80:08:81:6B:11:17:AE:E7:E4:90:01:F4:56:AC:4B:D0:97:02:00:00
```

The constructed and encrypted request APDU shall be:

```
0C:C3:00:00:00:00:38:85:20:12:4F:F4:BA:0E:EF:2D:7B:2E:95:99:29:D2:BC:F2:D2:80:08:
81:6B:11:17:AE:E7:E4:90:01:F4:56:AC:4B:D0:97:02:00:00:8E:10:32:D2:55:3A:53:6D:6F:
95:1D:78:A1:D8:F0:26:33:8C:00:00
```

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The response APDU payload data shall be:

```
C0:C1:C2:C3:C4:C5:C6:C7:C8:C9:CA:CB:CC:CD:CE:CF:90:00
```

The send sequence counter (SSC) for the encryption of the response APDU shall be:

```
D0:D1:D2:D3:D4:D5:D6:D7:D8:D9:DA:DB:DC:DD:00:04
```

The constructed and encrypted response APDU shall be:

```
85:20:33:8E:F1:C6:3E:6B:15:C2:DD:52:05:FE:24:7F:49:3B:C7:36:26:E8:13:30:EA:ED:CC:
65:7A:57:51:E7:08:C6:99:02:90:00:8E:10:AF:D0:65:92:AC:B1:0E:12:D9:19:4C:8B:01:3C:
46:A9:90:00
```

9 Marshalling

9.1 ASN.1 representation

All ASN.1 representations defined in ISO/IEC 24727-3, Annex C shall be DER/TLV encoded in accordance with *"ISO/IEC 8825-1, Information technology — ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)".*

The DER/TLV encoded ISO/IEC 24727-3 actions and/or the APDUs that are sent between the SAL Proxy API and the SAL Agent API are specified in Annex A of this part of ISO/IEC 24727.

9.2 Web-services representation

All WSDL representations defined in ISO/IEC 24727-4, Annex B shall be adhered to for IFD communications between the IFD Agent and IFD Proxy using SOAP services. If communication occures that does not use SOAP services than the IFD XML representation does not have to be SOAP wrapped, in this case the the IFD XML shall comply to the ISO/IEC 24727-4 Annex B ISOIFD.XSD definition.

The WSDL structures of the IFD interface are defined in clause 6.3 of this part of ISO/IEC 24727.

10 Stack configuration testing

All stack models defined in ISO/IEC 24727-4 shall be implemented using one or more components defined in ISO/IEC 24727-2, 3 and 4. In order to test these stack models the data transferred between the components shall be verified during test execution. This clause is based on the stack configurations as defined in ISO/IEC 24727-4 clause 5 Architecture specialization and identifies the testable interfaces for each component.

10.1 Testable interface definitions

Table 40 identifies the ISO/IEC 24727 component APIs (Interface B), the calling components (Interface A) and the data format that is transmitted between these components. Each possible combination of communication channel between components is assigned an Interface ID. The Interface ID is referenced in the appropriate stack model configurations in Figures 7 to 12.

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Table 40 — Testable interfaces

Test Clause	Interface	Test point ID	Interface test description	Interface A	Interface B	Protocol / language
6.1	SAL	6.1.A	Client Application to SAL	Client Application	SAL	Binding specific
		6.1.B	Client Application to SAL Proxy	Client Application	SAL	Binding specific
		6.1.C	SAL Proxy to SAL Agent	SAL Proxy	SAL Agent	DER TLV
		6.1.D	SAL Agent to SAL	SAL Agent	SAL	Binding specific
		6.1.E	Native Card Implementation to SAL Card Application	Native Card Implementation	SAL Card Application	DER TLV
		6.1.F	TC API to SAL Agent	TC API	SAL Agent	DER TLV
6.2	GCI	6.2.A	SAL to GCI	SAL	GCI	APDU
		6.2.B	SAL Agent to GCI	SAL	GCI	APDU
		6.2.C	TC API to GCI Agent	TC API	GCI Agent	SOAP
		6.2.D	Native Card Application to GCI Card Application	IFD	GCI Card Application	APDU
		6.2.E	SAL to GCI Proxy	SAL	GCI Proxy	APDU
6.3	IFD	6.3.A	SAL to IFD	SAL	IFD	Binding specific
		6.3.B	SAL to IFD Proxy	SAL	IFD Proxy	Binding specific
		6.3.C	SAL Proxy to IFD	SAL Proxy	IFD	Binding specific
		6.3.D	SAL Agent to IFD	SAL Agent	IFD	Binding specific
		6.3.E	SAL Agent to IFD Proxy	SAL Agent	IFD	Binding specific
		6.3.F	IFD Agent to IFD	IFD Agent	IFD	Binding specific
		6.3.G	IFD Proxy to IFD Agent	IFD Agent	IFD	SOAP
		6.3.H	GCI to IFD	GCI	IFD	Binding specific
		6.3.I	TC API to IFD	TC API	IFD	SOAP
		6.3.J	GCI Agent to IFD	GCI Agent	IFD	Binding specific
		6.3.K	GCI to IFD Proxy	GCI	IFD Proxy	Binding specific
6.4	TC API	6.4.A	SAL Proxy to TC API	SAL Proxy	TC API	Binding specific
		6.4.B	IFD Proxy to TC API	IFD Proxy	TC API	Binding specific
		6.4.C	GCI Proxy to TC API	GCI Proxy	TC API	Binding specific
		6.4.D	SAL to TC API	SAL	TC API	Binding specific
6.5	SAL on-card Implementation	6.5.A	IFD to Card Application	IFD	Card Application	APDU

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10.1.1 Full-network-stack

Figure 7 represents the stack model as defined in ISO/IEC 24727-4 clause 5.1 as well as corresponding communication channels (Testable Interfaces) as defined in Table 40. All data that is sent via these communication channels shall be intercepted, by the test implementation, and verified against the expected data as defined in this part of ISO/IEC 24727.

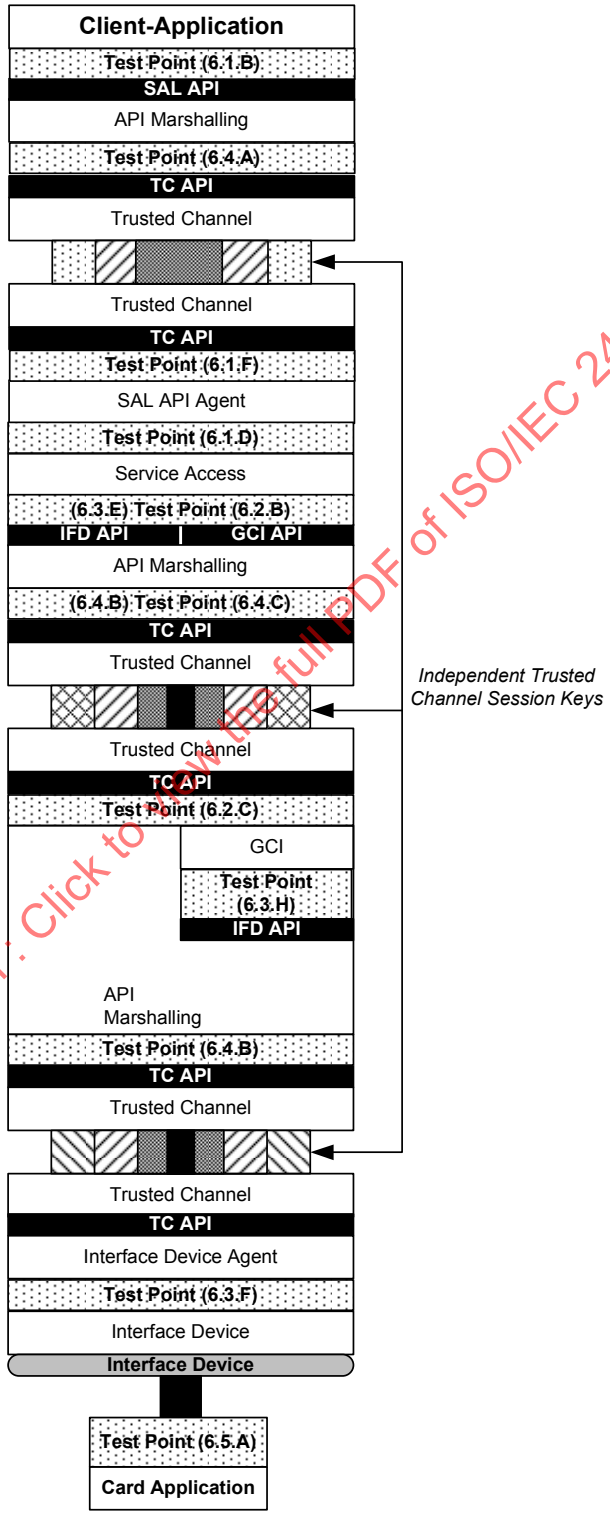


Figure 7 — Full Network Stack: Test Interfaces

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10.1.2 Loyal-stack

Figure 8 represents the stack model as defined in ISO/IEC 24727-4 clause 5.2 as well as corresponding communication channels (Testable Interfaces) as defined in Table 40. All data that is sent via these communication channels shall be intercepted, by the test implementation, and verified against the expected data as defined in this part of ISO/IEC 24727.

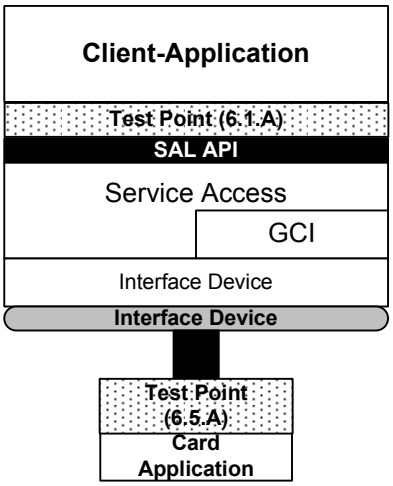


Figure 8 — Loyal-stack: Test interfaces

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10.1.3 Opaque-ICC-stack

Figure 9 represents the stack model as defined in ISO/IEC 24727-4 clause 5.3 as well as corresponding communication channels (Testable Interfaces) as defined in Table 40. All data that is sent via these communication channels shall be intercepted, by the test implementation, and verified against the expected data as defined in this part of ISO/IEC 24727.

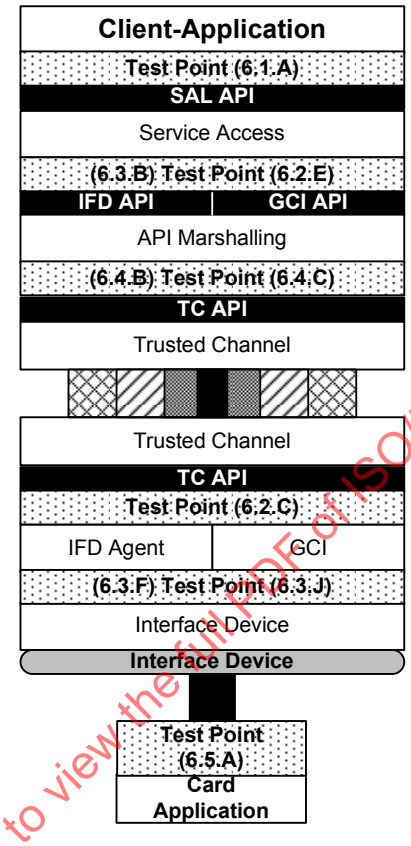


Figure 9 — Opaque-ICC-stack: Test interfaces

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10.1.4 Remote-loyal-stack

Figure 10 represents the stack model as defined in ISO/IEC 24727-4 clause 5.4 as well as corresponding communication channels (Testable Interfaces) as defined in Table 40. All data that is sent via these communication channels shall be intercepted, by the test implementation, and verified against the expected data as defined in this part of ISO/IEC 24727.

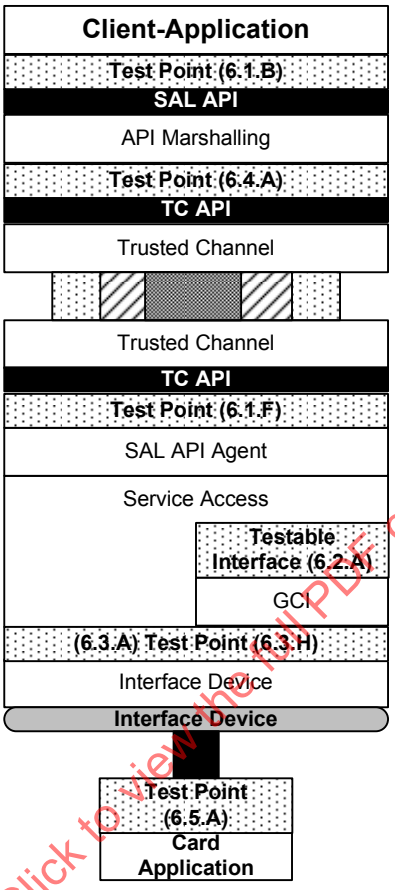


Figure 10 — Remote-loyal-stack: Test interfaces

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10.1.5 ICC-resident-stack

Figure 11 represents the stack model as defined in ISO/IEC 24727-4 clause 5.5 as well as corresponding communication channels (Testable Interfaces) as defined in Table 40. All data that is sent via these communication channels shall be intercepted, by the test implementation, and verified against the expected data as defined in this part of ISO/IEC 24727.

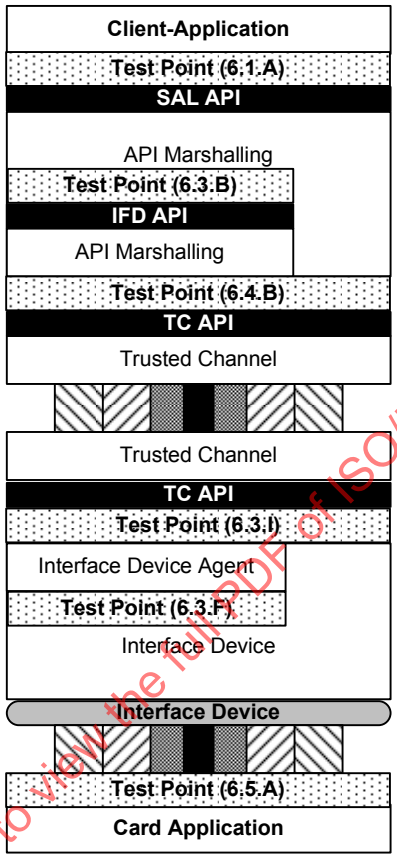


Figure 11 — ICC-resident-stack: Test interfaces

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10.1.6 Remote-ICC-stack

Figure 12 represents the stack model as defined in ISO/IEC 24727-4 clause 5.6 as well as corresponding communication channels (Testable Interfaces) as defined in Table 40. All data that is sent via these communication channels shall be intercepted, by the test implementation, and verified against the expected data as defined in this part of ISO/IEC 24727.

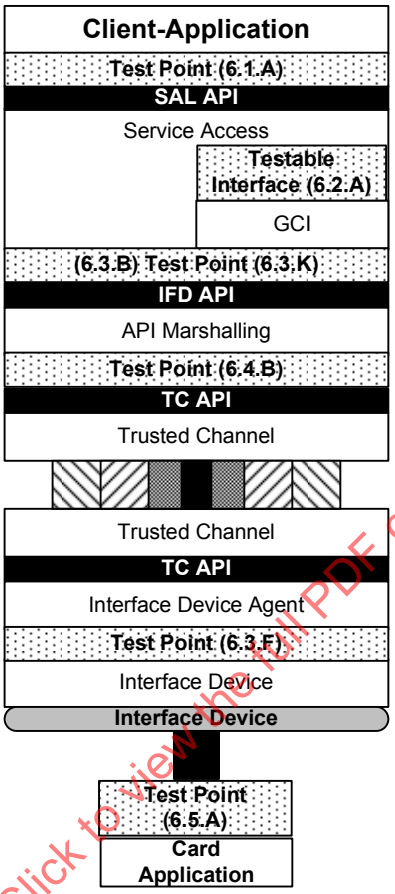


Figure 12 — Remote-ICC-stack: Test interfaces

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11 Operational testing

Operational testing is performed by applying a predefined sequence of actions on the ISO/IEC 24727-3 layer. The ISO/IEC 24727-3 layer is the only component that is static across all stack model implementations. Data transfer packets shall be intercepted between each layer and verified against expected results.

The system under test shall implement the simple assertion protocol in order to test ACL, DID and AR creation and functionality.

Operational testing shall include successful tests and failure tests.

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11.1 SAL test sequences

The following test sequences:

- Application management - alpha card-application data structure construction
- Application management - first application data structure construction
- Application management - application data structure construction error conditions
- Application management - second application data structure construction
- Data manipulation - card application path
- Data manipulation - general
- Data manipulation - global authentication
- Application management - data structure destruction

shall be run repediatly to ascertain that the data structure destruction deletes all constructs created during data structure construction.

Test descriptions are defined in Annex A.

12 Operational test reporting

Upon completion of conformance testing a test report shall be generated that will detail the dimension-of-conformance of the ISO/IEC 24727 implementation under test. Failure to achieve a specified dimension-of-conformance shall result in a report that details why a specific component-under-test did not achieve the targeted dimension-of-conformance.

Test reports shall be generated automatically taking into account verification and logging data as well as test specific results, based on expected inputs and output of the various components under test.

13 ISO/IEC 24727-6 authentication protocol testing

ISO/IEC 24727-6 authentication protocols shall follow the same guidelines of conformance testing as the ISO/IEC 24727-3 authentication protocols as defined in clause 7.

For an authentication protocol to achieve conformance, two types of tests need to be performed:

1) The off-card CUT shall be tested independently by using a card-application emulator that shall provide the required on-card functionality of the authentication protocol under test.

2) The on-card CUT shall be teste in conjunction with the off-card CUT.

All authentication protocols shall be actioned as described in ISO/IEC 24727-3 and all necessary authenticationProtocolData parameters shall be constructed as defined in ISO/IEC 24727-6.

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13.1 SAL test sequences

13.1.1 ISO/IEC 24727-6 defined authentication protocol

Table 41 shall be used as a template to define the tests required to ascertain that a specific implementation of this authentication protocol conforms to the specifications.

Table 41 — Protocol Sequence – ISO/IEC 24727-6 defined authentication protocol

ID	*Action*	*Possible ISO/IEC 24727-2 command translation*	*Description*

13.2 Reference model implementations

It is the responsibility of an authentication protocol submission to provide the required application oriented tests as well as a reference model implementation that may be used to verify the functionality of any test components constructed by the test laboratory. The RMI submission may be accompanied by its source code, which may aid in the implementation of the test components.

13.2.1 Off card-application

The off card-application RMI shall be encapsulated in a functional ISO/IEC 24727 component that is to be deployed off-card (e.g. client application, SAL proxy, or SAL). The provided implementation shall be a fully functional, stand alone, ISO/IEC 24727 off card component that can substitute a component under test. The RMI component may not be ISO/IEC 24727 verified.

13.2.2 Card-application emulator or test card use

The on card-application RMI may be provided as either a card-application emulator or a test card itself. The emulator or test card must be fully ISO/IEC 24727 functional but may not be ISO/IEC 24727 verified.

The ISO/IEC 24727-2 test emulator or card shall conform to ISO/IEC 24727-2 and the ISO/IEC 24727-3 emulator or card shall conform to ISO/IEC 24727-3.

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Annex A
(normative)

SAL operational test sequence descriptions

This annex provides a description of the tests and parameters defined in Annex B and Annex C. Annex A.1.1 to Annex A.1.8 represent defined scenarios that shall test the functionality of the components under test.

The following tests contain some environment and context specific parameters that may not be applicable to all test environments. All parameters shall be varied as defined in ISO/IEC 24727-5 clause 5.1.3 Testing Principles, principle number nine (9), which states:

"Test inputs and results shall vary each time a test is performed in order to ascertain that tests are not predictable."

The following tests define the expected inputs and outputs if the parameters are as defined within these tests. Expected inputs and outputs shall be adjusted, in accordance with the standard, when these parameters vary.

A.1 Application management – alpha card-application data structure construction

This scenario shall test the alpha card-application by constructing defined data structures and their security features. All tests shall pass i.e. not failure testing.

Detailed test data for each CUT is defined in Annex B.1, Annex C.1 and Annex D.1.

Table A.1 —SAL Sequence – Application management – alpha card-application data structure construction

ID	Action	Arguments	Description
1	*initialize*	*InitializeCall* *transactionIdentifier: null*	*Initialise the SAL Proxy.*
1	*initialize*	*InitializeReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Initialise the SAL Proxy.*
2	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1*	*Pre-condition: Connect to the Alpha card application. This shall automatically invoke Open on the TC layer and then EstablishContext on the IFDProxy as connectivity to the smartcard host has not yet been established. Then it shall invoke connect on the*

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ID	Action	Arguments	Description
		cardApplication: E82881C11702 *exclusiveUse: false*	*IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. If the sessionIdentifier field in the ChannelHandle is null then the SAL Proxy shall create a new TC connection. If the sessionIdentifier field is not null then the TC connection must exist at this point. In this case sessionIdentifier is null. The smartcard path shall be replaced when comparing the results to those from an ISO247272 stack.*
2	*cardApplicationConnect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Connect to the Alpha card application. This shall automatically invoke Open on the TC layer and then EstablishContext on the IFDProxy as connectivity to the smartcard host has not yet been established. Then it shall invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has*

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ID	Action	Arguments	Description
			completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. If the sessionIdentifier field in the ChannelHandle is null then the SAL Proxy shall create a new TC connection. If the sessionIdentifier field is not null then the TC connection must exist at this point. In this case sessionIdentifier is null. The smartcard path shall be replaced when comparing the results to those from an ISO247272 stack.
3	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: E82881C11702*	*Pre-condition: Retrieve the Alpha card application access rules. Ensure that all of the Alpha card application access rules are set to Always. For the purpose of this scenario test the Alpha card application needs to be open.*
3	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the Alpha card application access rules. Ensure that all of the Alpha card application access rules are set to Always. For the purpose of this scenario test the Alpha card application needs to be open.*

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ID	Action	Arguments	Description
		securityCondition: *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction: ExecuteAction* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:*	

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ID	Action	Arguments	Description
		always: true *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceList* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceLoad* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceCreate* *securityCondition:*	

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ID	Action	Arguments	Description
		always: true *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDelete* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDescribe* *securityCondition:* *always: true* *returnCode: API_OK*	
4	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *filter: null*	*Pre-condition: Retrieve the Alpha card application DID list of global DIDs. Ensure that the DID list is empty.*
4	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the Alpha card application DID list of global DIDs. Ensure that the DID list is empty.*
5	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the Alpha card application data set list. Ensure that the data set list is empty.*
5	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the Alpha card application data set list. Ensure that the data set list is empty.*
6	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Create the internal certificate DID. The internal certificate DID is used to verify that*

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ID	Action	Arguments	Description
		didName: InternalCert *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:*	*this is a valid smartcard. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. One of these may not have yet been created. This DID is actually a Simple Assertion DID, not an Client Application Asymmetric Internal Authentication DID. This simplifies the test case.*

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ID	Action	Arguments	Description
		never: false *cardApplicationService: Cryptographic action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true*	
6	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the internal certificate DID. The internal certificate DID is used to verify that this is a valid smartcard. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. One of these may not have yet been created. This DID is actually a Simple Assertion DID, not an Client Application Asymmetric Internal Authentication DID. This simplifies the test case.*
7	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: MangExternalCert* *authProtocolOID:*	*Create the management external certificate DID. The management external certificate DID is used to provide an external party with*

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ID	Action	Arguments	Description
		id: 1.0.24727.3.0.3 *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic*	*full privileges. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*

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ID	Action	Arguments	Description
		action: *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true*	
7	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the management external certificate DID. The management external certificate DID is used to provide an external party with full privileges. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*
8	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: InternalCert* *cardApplicationServiceName:* *DifferentialIdentity*	*Modify the DIDUpdate access rule of the internal certificate DID. Set the DIDUpdate access rule to first require authentication of the internal and external management certificate*

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ID	Action	Arguments	Description
		actionName: *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: GLOBAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: GLOBAL* *didState: false*	*DIDs.*
8	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDUpdate access rule of the internal certificate DID. Set the DIDUpdate access rule to first require authentication of the internal and external management certificate DIDs.*
9	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: InternalCert* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: GLOBAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: GLOBAL* *didState: false*	*Modify the ACLModify access rule of the internal certificate DID. Set the ACLModify access rule to first require authentication of the internal and external management certificate DIDs.*

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ID	Action	Arguments	Description
9	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the ACLModify access rule of the internal certificate DID. Set the ACLModify access rule to first require authentication of the internal and external management certificate DIDs.*
10	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: MangExternalCert* *cardApplicationServiceName:* *DifferentialIdentity* *actionName:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: GLOBAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: GLOBAL* *didState: false*	*Modify the DIDUpdate access rule of the management external certificate DID. Set the DIDUpdate access rule to first require authentication of the internal and external management certificate DIDs.*
10	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDUpdate access rule of the management external certificate DID. Set the DIDUpdate access rule to first require authentication of the internal and external management certificate DIDs.*

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ID	Action	Arguments	Description
11	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: MangExternalCert* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: GLOBAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: GLOBAL* *didState: false*	*Modify the ACLModify access rule of the management external certificate DID. Set the ACLModify access rule to first require authentication of the internal and external management certificate DIDs.*
11	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the ACLModify access rule of the management external certificate DID. Set the ACLModify access rule to first require authentication of the internal and external management certificate DIDs.*
12	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: CHPIN* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity*	*Create the Card Holder PIN DID. The Card Holder is required to enter a PIN to authenticate this DID. This DID is actually a Simple Assertion DID, not an Client-Application Secure PIN Compare Authentication DID. This simplifies the test case.*

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ID	Action	Arguments	Description
		action: *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: GLOBAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: GLOBAL* *didState: false* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:*	

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ID	Action	Arguments	Description
		never: false *cardApplicationService: Cryptographic action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: GLOBAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: GLOBAL* *didState: false*	
12	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the Card Holder PIN DID. The Card Holder is required to enter a PIN to authenticate this DID. This DID is actually a Simple Assertion DID, not an Client-Application Secure PIN Compare Authentication DID. This simplifies the test case.*
13	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: AccessLog* *authProtocolOID:* *id: 1.0.24727.3.0.3*	*Create the access log DID. This shall enable logging across all non-alpha card applications. Before authenticating this DID require internal and*

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ID	Action	Arguments	Description
		didUpdateData: *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: GLOBAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: GLOBAL* *didState: false* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: GLOBAL* *didState: true* *didAuthentication:* *didName: CHPIN* *didScope: GLOBAL* *didState: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:*	*CHPIN DID authentication.*

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ID	Action	Arguments	Description
		never: false *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: GLOBAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: GLOBAL* *didState: false*	
13	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the access log DID. This shall enable logging across all non-alpha card applications. Before authenticating*

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ID	Action	Arguments	Description
			this DID require internal and CHPIN DID authentication.
14	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: E82881C11702*	*Post-condition: Retrieve the Alpha card application access rules. Ensure that these access rules have not changed. Ensure the permissions on the Alpha card are all set to Always.*
14	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:*	*Return of previous SAL Proxy call: Post-condition: Retrieve the Alpha card application access rules. Ensure that these access rules have not changed. Ensure the permissions on the Alpha card are all set to Always.*

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ID	Action	Arguments	Description
		always: true *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction: ExecuteAction* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:*	

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ID	Action	Arguments	Description
		cardApplicationServiceAction: *CardApplicationDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceList* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceLoad* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDelete* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDescribe* *securityCondition:* *always: true* *returnCode: API_OK*	
15	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *filter: null*	*Post-condition:* *Retrieve the Alpha card application DID list of global DIDs. Ensure that the DID list contains the newly*

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ID	Action	Arguments	Description
			created DIDs.
15	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *CHPIN* *AccessLog* *InternalCert* *MangExternalCert* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the Alpha card application DID list of global DIDs. Ensure that the DID list contains the newly created DIDs.*
16	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Post-condition: Retrieve the Alpha card application data set list. Ensure that the data set list is empty.*
16	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the Alpha card application data set list. Ensure that the data set list is empty.*
17	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	*Post-condition: Disconnect from the Alpha card application. Transmit on the IFDProxy shall be invoked to transmit the CardApplicationDisconnect APDU to the Alpha card application. After transmit has completed, disconnect shall be invoked on the IFDProxy.*
17	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the Alpha card application. Transmit on the IFDProxy shall be invoked to transmit*

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ID	Action	Arguments	Description
			the CardApplicationDisconnect APDU to the Alpha card application. After transmit has completed, disconnect shall be invoked on the IFDProxy.
18	*terminate*	*TerminateCall transactionIdentifier: null*	*Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*
18	*terminate*	*TerminateReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*

A.2 Application management – first application data structure construction

This scenario shall test the creation of a card-application other than the alpha card-application as well as data structures and their associated security features. All tests shall pass i.e. not failure testing.

Detailed test data for each CUT is defined in Annex B.2, Annex C.2 and Annex D.2

Table A.2 —SAL Sequence – Application management – first application data structure construction

ID	Action	Arguments	Description
1	*initialize*	*InitializeCall transactionIdentifier: null*	*Initialise the SAL Proxy.*
1	*initialize*	*InitializeReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Initialise the SAL Proxy.*
2	*cardApplication Connect*	*CardApplicationConnectCall transactionIdentifier: null argument: cardApplicationPath: pathSecurity: null channelHandle: protocolTerminationPoint: http://smartcard-*	*Pre-condition: Connect to the Alpha card application. This shall first invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD*

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ID	Action	Arguments	Description
		host.net *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: E82881C11702* *exclusiveUse: false*	*layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. The IFD Name shall need to be replaced with an actual reader name when comparing the results to results from an ISO247272 stack.*
2	*cardApplicationConnect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Connect to the Alpha card application. This shall first invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. The IFD Name shall need to be replaced with an actual reader name when comparing the results to results from an ISO247272 stack.*
3	*cardApplicationList*	*CardApplicationListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the Alpha card application DID list of global DIDs. Ensure the CardApplicationList only contains the Alpha card application.*

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ID	Action	Arguments	Description
3	*cardApplicationList*	*CardApplicationListReturn* *transactionIdentifier: null* *result:* *cardApplicationNameList:* *E82881C11702* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the Alpha card application DID list of global DIDs. Ensure the CardApplicationList only contains the Alpha card application.*
4	*cardApplicationConnect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*Pre-condition: Ensure the A00000041000010001 card application does not exist at the following location: IFD Name: Blue IFD Reader SN2432A4; Slot: 1. An error response (API_INCORRECT_PARAMETER) is expected.*
4	*cardApplicationConnect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result: null* *returnCode: API_INCORRECT_PARAMETER*	*Return of previous SAL Proxy call: Pre-condition: Ensure the A00000041000010001 card application does not exist at the following location: IFD Name: Blue IFD Reader SN2432A4; Slot: 1. An error response (API_INCORRECT_PARAMETER) is expected.*
5	*cardApplicationCreate*	*CardApplicationCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *cardApplicationName: A00000041000010001* *cardApplicationACL:* *accessRule:*	*Create the A00000041000010001 application with all of the access rules are set to always.*

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ID	Action	Arguments	Description
		cardApplicationService: Connection *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationDelete* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceList* *securityCondition:* *always: true*	

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ID	Action	Arguments	Description
		cardApplicationService: CardApplication *action:* *cardApplicationServiceAction:* *CardApplicationServiceCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceLoad* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDelete* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDescribe* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction: ExecuteAction* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:*	

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ID	Action	Arguments	Description
		always: true *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *always: true*	
5	*cardApplication Create*	*CardApplicationCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the A00000041000010001 application with all of the access rules are set to always.*
6	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*Connect to the newly created card application. Ensure that multiple connections to different card applications are supported.*
6	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:*	*Return of previous SAL Proxy call: Connect to the newly created card*

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ID	Action	Arguments	Description
		connectionHandle: 1 *returnCode: API_OK*	*application. Ensure that multiple connections to different card applications are supported.*
7	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001*	*Retrieve the A00000041000010001 card application access rules. Ensure that the ACL is the same as the one specified in the CardApplicationCreate call.*
7	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList*	*Return of previous SAL Proxy call: Retrieve the A00000041000010001 card application access rules. Ensure that the ACL is the same as the one specified in the CardApplicationCreate call.*

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ID	Action	Arguments	Description
		securityCondition: *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction: ExecuteAction* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication*	

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ID	Action	Arguments	Description
		action: *cardApplicationServiceAction:* *CardApplicationDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceList* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceLoad* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDelete* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDescribe* *securityCondition:* *always: true* *returnCode: API_OK*	
8	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Retrieve the A00000041000010001 card application DID list. Ensure that the DID list is empty. A*

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ID	Action	Arguments	Description
		filter: null	*newly created card application should have an empty DID list.*
8	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the A00000041000010001 card application DID list. Ensure that the DID list is empty. A newly created card application should have an empty DID list.*
9	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Retrieve the A00000041000010001 card application data set list. Ensure that the data set list is empty. A newly created card application should have an empty data set list.*
9	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the A00000041000010001 card application data set list. Ensure that the data set list is empty. A newly created card application should have an empty data set list.*
10	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: InternalCert* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity*	*Create the internal certificate DID. The internal certificate DID is used to verify that this is a valid smartcard. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. One of these*

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ID	Action	Arguments	Description
		action: *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList*	*may not have yet been created. This DID is actually a Simple Assertion DID, not an Client Application Asymmetric Internal Authentication DID. This simplifies the test case. Ensure that multiple DIDs with the same name can exist in multiple card applications.*

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ID	Action	Arguments	Description
		securityCondition: *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true*	
10	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the internal certificate DID. The internal certificate DID is used to verify that this is a valid smartcard. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. One of these may not have yet been created. This DID is actually a Simple Assertion DID, not an Client Application Asymmetric Internal Authentication DID. This simplifies the test case. Ensure that multiple DIDs with the same name can exist in multiple card applications.*
11	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: MangExternalCert* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:*	*Create the management external certificate DID. The management external certificate DID is used to provide an external party with full privileges. First create the DIDs then restrict the DID modification permissions. The*

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ID	Action	Arguments	Description
		accessRule: *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization*	*modification access rules refer to the Internal and External DIDs. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*

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ID	Action	Arguments	Description
		action: *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true*	
11	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the management external certificate DID. The management external certificate DID is used to provide an external party with full privileges. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*
12	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: InternalCert* *cardApplicationServiceName: DifferentialIdentity* *actionName:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:*	*Modify the DIDUpdate access rule of the internal certificate DID. Set the DID update access rule to first require authentication of the internal and external management certificate DIDs.*

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ID	Action	Arguments	Description
		didAuthentication: *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
12	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDUpdate access rule of the internal certificate DID. Set the DID update access rule to first require authentication of the internal and external management certificate DIDs.*
13	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: InternalCert* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Modify the ACLModify access rule of the internal certificate DID. Set the ACL Modify access rule to first require authentication of the internal and external management certificate DIDs.*
13	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the ACLModify access rule of the internal certificate DID. Set the*

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ID	Action	Arguments	Description
			ACL Modify access rule to first require authentication of the internal and external management certificate DIDs.
14	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: MangExternalCert* *cardApplicationServiceName: DifferentialIdentity* *actionName:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Modify the DIDUpdate access rule of the management external certificate DID. Set the DID update access rule to first require authentication of the internal and external management certificate DIDs.*
14	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDUpdate access rule of the management external certificate DID. Set the DID update access rule to first require authentication of the internal and external management certificate DIDs.*
15	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: DIFFERENTIAL-IDENTITY*	*Modify the ACLModify access rule of the management external certificate DID. Set the ACL modify access rule*

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ID	Action	Arguments	Description
		targetName: *didName: MangExternalCert* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*to first require authentication of the internal and external management certificate DIDs.*
15	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the ACLModify access rule of the management external certificate DID. Set the ACL modify access rule to first require authentication of the internal and external management certificate DIDs.*
16	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: CHPIN* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity*	*Create the Card Holder PIN DID. The Card Holder is required to enter a PIN to authenticate this DID. This DID is actually a Simple Assertion DID, not an Client-Application Secure PIN Compare Authentication DID. This simplifies the test case.*

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ID	Action	Arguments	Description
		action: *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction:* *DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:*	

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ID	Action	Arguments	Description
		never: false *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
16	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the Card Holder PIN DID. The Card Holder is required to enter a PIN to authenticate this DID. This DID is actually a Simple Assertion DID, not an Client-Application Secure PIN Compare Authentication DID. This simplifies the test case.*
17	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: AlphaExternalCert* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:*	*Create the Alpha External Certificate DID. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*

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ID	Action	Arguments	Description
		cardApplicationService: DifferentialIdentity *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction:* *DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature*	

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ID	Action	Arguments	Description
		securityCondition: *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
17	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the Alpha External Certificate DID. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*
18	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: BetaExternalCert* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:*	*Create the Beta External Certificate DID. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test*

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ID	Action	Arguments	Description
		qualifier: null *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false*	*case.*

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ID	Action	Arguments	Description
		cardApplicationService: Cryptographic *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
18	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the Beta External Certificate DID. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*
19	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:*	*Modify the CardApplicationServiceList access rule of the A00000041000010001 application. Remove the ability to list card*

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ID	Action	Arguments	Description
		cardApplicationName: A00000041000010001 *cardApplicationServiceName: CardApplication* *actionName:* *cardApplicationServiceAction:* *CardApplicationServiceList* *securityCondition:* *never: false*	*applications services.*
19	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the CardApplicationServiceList access rule of the A00000041000010001 application. Remove the ability to list card applications services.*
20	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName: CardApplication* *actionName:* *cardApplicationServiceAction:* *CardApplicationServiceCreate* *securityCondition:* *never: false*	*Modify the CardApplicationServiceCreate access rule of the A00000041000010001 application. Remove the ability to create card applications services.*
20	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the CardApplicationServiceCreate access rule of the A00000041000010001 application. Remove the ability to create card applications services.*
21	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:*	*Modify the CardApplicationServiceLoad access rule of the A00000041000010001 application. Remove*

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ID	Action	Arguments	Description
		cardApplicationName: A00000041000010001 *cardApplicationServiceName: CardApplication* *actionName:* *cardApplicationServiceAction:* *CardApplicationServiceLoad* *securityCondition:* *never: false*	*the ability to load card applications services.*
21	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the CardApplicationServiceLoad access rule of the A00000041000010001 application. Remove the ability to load card applications services.*
22	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName: CardApplication* *actionName:* *cardApplicationServiceAction:* *CardApplicationServiceDelete* *securityCondition:* *never: false*	*Modify the CardApplicationServiceDelete access rule of the A00000041000010001 application. Remove the ability to delete card applications services.*
22	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the CardApplicationServiceDelete access rule of the A00000041000010001 application. Remove the ability to delete card applications services.*
23	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION*	*Modify the CardApplicationServiceDescribe access rule of the A00000041000010001*

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ID	Action	Arguments	Description
		targetName: *cardApplicationName: A00000041000010001* *cardApplicationServiceName: CardApplication* *actionName:* *cardApplicationServiceAction: CardApplicationServiceDescribe* *securityCondition:* *never: false*	*application. Remove the ability to describe card applications.*
23	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the CardApplicationServiceDescribe access rule of the A00000041000010001 application. Remove the ability to describe card applications.*
24	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName: CardApplication* *actionName:* *cardApplicationServiceAction: ExecuteAction* *securityCondition:* *never: false*	*Modify the ExecuteAction access rule of the A00000041000010001 application. Remove the ability to execute a generic action.*
24	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the ExecuteAction access rule of the A00000041000010001 application. Remove the ability to execute a generic action.*
25	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001*	*Modify the DataSetList access rule of the A00000041000010001 application: Internal AND (CHPIN OR MangExternalCert OR AlphaExternalCert OR*

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ID	Action	Arguments	Description
		cardApplicationServiceName: NamedData *actionName:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false*	*BetaExternalCert).*
25	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DataSetList access rule of the A00000041000010001 application: Internal AND (CHPIN OR MangExternalCert OR AlphaExternalCert OR BetaExternalCert).*
26	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName: NamedData*	*Modify the DataSetCreate access rule of the A00000041000010001 application: Internal AND MangExternalCert.*

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ID	Action	Arguments	Description
		actionName: *namedDataServiceAction: DataSetCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
26	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DataSetCreate access rule of the A00000041000010001 application: Internal AND MangExternalCert.*
27	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName: NamedData* *actionName:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Modify the DataSetDelete access rule of the A00000041000010001 application: Internal AND MangExternalCert.*
27	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DataSetDelete access*

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ID	Action	Arguments	Description
			rule of the A00000041000010001 application: Internal AND MangExternalCert.
28	*aclModify*	*ACLModifyCall transactionIdentifier: null argument: connectionHandle: 1 targetType: CARD-APPLICATION targetName: cardApplicationName: A00000041000010001 cardApplicationServiceName: DifferentialIdentity actionName: differentialIdentityServiceAction: DIDCreate securityCondition: and: securityCondition: didAuthentication: didName: InternalCert didScope: LOCAL didState: true didAuthentication: didName: MangExternalCert didScope: LOCAL didState: true*	*Modify the DIDCreate access rule of the A00000041000010001 application: Internal AND MangExternalCert.*
28	*aclModify*	*ACLModifyReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDCreate access rule of the A00000041000010001 application: Internal AND MangExternalCert.*
29	*aclModify*	*ACLModifyCall transactionIdentifier: null argument: connectionHandle: 1 targetType: CARD-APPLICATION targetName: cardApplicationName: A00000041000010001 cardApplicationServiceName: DifferentialIdentity actionName:*	*Modify the DIDDelete access rule of the A00000041000010001 application: Internal AND MangExternalCert.*

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ID	Action	Arguments	Description
		differentialIdentityServiceAction: DIDDelete *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
29	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDDelete access rule of the A00000041000010001 application: Internal AND MangExternalCert.*
30	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Modify the ACLModify access rule of the A00000041000010001 application: Internal AND MangExternalCert.*
30	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the ACLModify access rule of the*

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ID	Action	Arguments	Description
			A00000041000010001 application: Internal AND MangExternalCert.
31	*aclModify*	*ACLModifyCall transactionIdentifier: null argument: connectionHandle: 1 targetType: CARD-APPLICATION targetName: cardApplicationName: A00000041000010001 cardApplicationServiceName: CardApplication actionName: cardApplicationServiceAction: CardApplicationList securityCondition: never: false*	*Attempt to modify the CardApplicationList access rule of the A00000041000010001 application. This ACLModify shall fail as the previous ACLModify restricts permissions to modify A00000041000010001's ACLs. Ensure the ACLModify access rule is enforced.*
31	*aclModify*	*ACLModifyReturn transactionIdentifier: null returnCode: API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to modify the CardApplicationList access rule of the A00000041000010001 application. This ACLModify shall fail as the previous ACLModify restricts permissions to modify A00000041000010001's ACLs. Ensure the ACLModify access rule is enforced.*
32	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 1 didScope: LOCAL didName: InternalCert authenticationProtocolData: samConnectionHandle: null*	*Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to update the smartcard.*
32	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData:*	*Return of previous SAL Proxy call: Authenticate the InternalCert DID.*

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ID	Action	Arguments	Description
		returnCode: API_OK	*This, combined with MangExternalCert, shall provide us with management permissions to update the smartcard.*
33	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: MangExternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the MangExternalCert DID. This, combined with InternalCert, shall provide us with management permissions to update the smartcard.*
33	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the MangExternalCert DID. This, combined with InternalCert, shall provide us with management permissions to update the smartcard.*
34	*dataSetCreate*	*DataSetCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 1-DS1* *dataSetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetSelect* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN*	*Create the 1-DS1 dataset. All authenticated users can read this information. Only management can update this information.*

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSICreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert*	

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIWrite* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIRead* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:*	

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ID	Action	Arguments	Description
		always: true *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
34	*dataSetCreate*	*DataSetCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS1 dataset. All authenticated users can read this information. Only management can update this information.*
35	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 1-DS1-DSI1* *dsiContent:* *4E616D653A20426F62204D634C65616E3B2* *0444F423A20323030382D31302D3033*	*Create the 1-DS1-DSI1 DSI. A DataSetCreate call automatically selects the new DataSet. Ensure that a DSI can be created in the 1-DS1 DataSet without needing to invoke DataSetSelect.*
35	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS1-DSI1 DSI. A DataSetCreate call automatically selects the new DataSet. Ensure that a DSI can be created in the 1-DS1 DataSet without needing to invoke DataSetSelect.*
36	*dataSetCreate*	*DataSetCreateCall*	*Create the 1-DS2*

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ID	Action	Arguments	Description
		transactionIdentifier: null *argument:* *connectionHandle: 1* *dataSetName: 1-DS2* *dataSetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetSelect* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN*	*dataset. All authenticated users can read this information. Only management and the card holder can update this information. Ensure that a card application can contain multiple DataSets.*

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSICreate* *securityCondition:* *and:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIWrite* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIRead* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
36	*dataSetCreate*	*DataSetCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS2 dataset. All authenticated users can read this information. Only management and the card holder can update this information. Ensure that a card application can contain multiple*

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ID	Action	Arguments	Description
			DataSets.
37	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 1-DS2-DSI1* *dsiContent:* *5374726565743A20323320 4A61636172616E64612053743B20537572627572623A2057696E73746F6E*	*Create the 1-DS2-DSI1 DSI. A DataSetCreate call automatically selects the new DataSet. Ensure that a DSI can be created in the 1-DS2 DataSet without needing to invoke DataSetSelect.*
37	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS2-DSI1 DSI. A DataSetCreate call automatically selects the new DataSet. Ensure that a DSI can be created in the 1-DS2 DataSet without needing to invoke DataSetSelect.*
38	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 1-DS2-DSI2* *dsiContent:* *4C616E646C696E653A203035312036323120 3238333B204D6F62696C653A203034322038 323920333831*	*Create the 1-DS2-DSI2 DSI. Ensure that a DataSet can contain multiple DSIs.*
38	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS2-DSI2 DSI. Ensure that a DataSet can contain multiple DSIs.*
39	*dataSetCreate*	*DataSetCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 1-DS3* *dataSetACL:* *accessRule:*	*Create the 1-DS3 dataset. All authenticated users, except the Alpha DID, can read this information. Only management can*

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ID	Action	Arguments	Description
		cardApplicationService: NamedData *action:* *namedDataServiceAction: DataSetSelect* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false*	*update this information. Ensure that a card application can contain multiple DataSets.*

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ID	Action	Arguments	Description
		cardApplicationService: NamedData *action:* *namedDataServiceAction: DSICreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIWrite* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIRead* *securityCondition:* *and:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
39	*dataSetCreate*	*DataSetCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS3 dataset. All authenticated users, except the Alpha DID, can read this information. Only management can update this information. Ensure*

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ID	Action	Arguments	Description
			that a card application can contain multiple DataSets.
40	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 1-DS3-DSI1* *dsiContent: 5365766572653A204E6F6E65*	*Create the 1-DS3-DSI1 DSI.*
40	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS3-DSI1 DSI.*
41	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 1-DS3-DSI2* *dsiContent: 446573633A204E6F6E65*	*Create the 1-DS3-DSI2 DSI.*
41	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS3-DSI2 DSI.*
42	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 1-DS3-DSI3* *dsiContent:* *4E616D653A204E6F6E653B20446F73653A204E6F6E65*	*Create the 1-DS3-DSI3 DSI.*
42	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS3-DSI3 DSI.*
43	*dataSetCreate*	*DataSetCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: AccessLog* *dataSetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetSelect*	*Create the AccessLog dataset. Only the card holder (CHPIN) can read this information and only if logging has been enabled by authenticating with the global LogAccess DID. The information is updated by the*

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ID	Action	Arguments	Description
		securityCondition: *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSICreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL*	*DataSetSelect method. Ensure that an access rule can refer to a Global DID.*

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ID	Action	Arguments	Description
		didState: true *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIWrite* *securityCondition:* *never: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIRead* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AccessLog* *didScope: GLOBAL* *didState: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization*	

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ID	Action	Arguments	Description
		action: *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
43	*dataSetCreate*	*DataSetCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the AccessLog dataset. Only the card holder (CHPIN) can read this information and only if logging has been enabled by authenticating with the global LogAccess DID. The information is updated by the DataSetSelect method. Ensure that an access rule can refer to a Global DID.*
44	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: AccessLog* *dsiContent:*	*Create the AccessLog DSI.*
44	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the AccessLog DSI.*
45	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: CHPIN*	*Post-condition: Authenticate as the card holder. This shall enable us to read the smartcard.*

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ID	Action	Arguments	Description
		authenticationProtocolData: *samConnectionHandle: null*	
45	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Authenticate as the card holder. This shall enable us to read the smartcard.*
46	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001*	*Post-condition: Retrieve the A00000041000010001 card application access rules. Ensure that the ACL has been updated appropriately.*
46	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction: ExecuteAction* *securityCondition:* *never: false* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList*	*Return of previous SAL Proxy call: Post-condition: Retrieve the A00000041000010001 card application access rules. Ensure that the ACL has been updated appropriately.*

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ID	Action	Arguments	Description
		securityCondition: *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceList* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceLoad* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceCreate*	

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ID	Action	Arguments	Description
		securityCondition: *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDelete* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDescribe* *securityCondition:* *never: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
47	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *filter: null*	*Post-condition: Retrieve the A00000041000010001 card application DID list. Ensure that the DID list contains the newly created DIDs.*
47	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *CHPIN* *InternalCert* *BetaExternalCert* *MangExternalCert* *AlphaExternalCert* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the A00000041000010001 card application DID list. Ensure that the DID list contains the newly created DIDs.*
48	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Post-condition: Retrieve the A00000041000010001 card application DataSet list. Ensure that the DataSet list contains the newly created DataSets.*
48	*dataSetList*	*DataSetListReturn*	*Return of previous SAL*

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ID	Action	Arguments	Description
		transactionIdentifier: null *result:* *dataSetNameList:* *dataSetName:* *1-DS1* *1-DS2* *1-DS3* *AccessLog* *returnCode: API_OK*	*Proxy call: Post-condition: Retrieve the A00000041000010001 card application DataSet list. Ensure that the DataSet list contains the newly created DataSets.*
49	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 1-DS1*	*Post-condition: Select the 1-DS1 DataSet.*
49	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Select the 1-DS1 DataSet.*
50	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Post-condition: Retrieve the 1-DS1 DSI list. Ensure that the DSI list contains the newly created DSIs.*
50	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *1-DS1-DSI1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the 1-DS1 DSI list. Ensure that the DSI list contains the newly created DSIs.*
51	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 1-DS2*	*Post-condition: Select the 1-DS2 DataSet.*
51	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Select the 1-DS2 DataSet.*
52	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:*	*Post-condition: Retrieve the 1-DS2 DSI list. Ensure that the*

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ID	Action	Arguments	Description
		connectionHandle: 1	*DSI list contains the newly created DSIs.*
52	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *1-DS2-DSI1* *1-DS2-DSI2* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the 1-DS2 DSI list. Ensure that the DSI list contains the newly created DSIs.*
53	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 1-DS3*	*Post-condition: Select the 1-DS2 DataSet.*
53	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Select the 1-DS2 DataSet.*
54	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Post-condition: Retrieve the 1-DS3 DSI list. Ensure that the DSI list contains the newly created DSIs.*
54	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *1-DS3-DSI1* *1-DS3-DSI2* *1-DS3-DSI3* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the 1-DS3 DSI list. Ensure that the DSI list contains the newly created DSIs.*
55	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: AccessLog*	*Post-condition: Select the AccessLog DataSet.*
55	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Select the*

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ID	Action	Arguments	Description
			AccessLog DataSet.
56	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Post-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the newly created DSI.*
56	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the newly created DSI.*
57	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *action: null*	*Post-condition: Disconnect from the A00000041000010001 application.*
57	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the A00000041000010001 application.*
58	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	*Post-condition: Disconnect from the Alpha card application. Transmit on the IFDProxy shall be invoked to transmit the CardApplicationDisconnect APDU to the Alpha card application. After transmit has completed, disconnect shall be invoked on the IFDProxy.*
58	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the Alpha card application. Transmit on the IFDProxy shall*

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ID	Action	Arguments	Description
			be invoked to transmit the CardApplicationDisconnect APDU to the Alpha card application. After transmit has completed, disconnect shall be invoked on the IFDProxy.
59	*terminate*	*TerminateCall transactionIdentifier: null*	*Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*
59	*terminate*	*TerminateReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*

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A.3 Application management – application data structure construction error conditions

This scenario shall test error conditions that are associated with data construction and their associated security conditions.

Detailed test data for each CUT is defined in Annex B.3, Annex C.3 and Annex D.3

Table A.3 —SAL Sequence – Application management – application data structure construction error conditions

ID	Action	Arguments	Description
1	*initialize*	*InitializeCall transactionIdentifier: null*	*Initialise the SAL Proxy.*
1	*initialize*	*InitializeReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Initialise the SAL Proxy.*
2	*cardApplication Connect*	*CardApplicationConnectCall transactionIdentifier: null argument: cardApplicationPath:*	*Pre-condition: Connect to the Alpha card application. This shall first invoke connect on*

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ID	Action	Arguments	Description
		pathSecurity: null *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: E82881C11702* *exclusiveUse: false*	*the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. The IFD Name shall need to be replaced with an actual reader name when comparing the results to results from an ISO247272 stack.*
2	*cardApplicationConnect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Connect to the Alpha card application. This shall first invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. The IFD Name shall need to be replaced with an actual reader name when comparing the results to results from an ISO247272 stack.*
3	*cardApplicationList*	*CardApplicationListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the Alpha card application DID list of global DIDs. Ensure the CardApplicationList*

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ID	Action	Arguments	Description
			only contains the Alpha and card holder (A00000041000010001) card applications.
3	*cardApplication List*	*CardApplicationListReturn transactionIdentifier: null result: cardApplicationNameList: E82881C11702 A00000041000010001 returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the Alpha card application DID list of global DIDs. Ensure the CardApplicationList only contains the Alpha and card holder (A00000041000010001) card applications.*
4	*cardApplication Connect*	*CardApplicationConnectCall transactionIdentifier: null argument: cardApplicationPath: pathSecurity: null channelHandle: protocolTerminationPoint: http://smartcard-host.net sessionIdentifier: null binding: null contextHandle: null ifdName: Blue IFD Reader SN2432A4 slotIndex: 1 cardApplication: A00000041000010001 exclusiveUse: false*	*Connect to the A00000041000010001 card application.*
4	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 1 returnCode: API_OK*	*Return of previous SAL Proxy call: Connect to the A00000041000010001 card application.*
5	*cardApplication Connect*	*CardApplicationConnectCall transactionIdentifier: null argument: cardApplicationPath: pathSecurity: null channelHandle: protocolTerminationPoint: http://smartcard-host.net sessionIdentifier: null*	*Connect again to the A00000041000010001 card application. Ensure that multiple non-exclusive connections can exist to the same card application.*

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ID	Action	Arguments	Description
		binding: null *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	
5	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 2* *returnCode: API_OK*	*Return of previous SAL Proxy call: Connect again to the A00000041000010001 card application. Ensure that multiple non-exclusive connections can exist to the same card application.*
6	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: true*	*Attempt to connect, in exclusive mode, to the A00000041000010001 card application. Ensure an exclusive connection attempt shall fail when a non-exclusive connection already exists.*
6	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_EXCLUSIVE_NOT_AVAILABLE*	*Return of previous SAL Proxy call: Attempt to connect, in exclusive mode, to the A00000041000010001 card application. Ensure an exclusive connection attempt shall fail when a non-exclusive connection already exists.*
7	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null*	*Disconnect from the A00000041000010001*

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ID	Action	Arguments	Description
		argument: *connectionHandle: 2* *action: null*	*card application.*
7	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Disconnect from the A00000041000010001 card application.*
8	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *action: null*	*Disconnect again from the A00000041000010001 card application. After this disconnect, there shall not be any connections to the A00000041000010001 card application.*
8	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Disconnect again from the A00000041000010001 card application. After this disconnect, there shall not be any connections to the A00000041000010001 card application.*
9	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: true*	*Connect, in exclusive mode, to the A00000041000010001 card application.*
9	*cardApplication*	*CardApplicationConnectReturn*	*Return of previous SAL*

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ID	Action	Arguments	Description
	Connect	*transactionIdentifier: null* *result:* *connectionHandle: 1* *returnCode: API_OK*	*Proxy call: Connect, in exclusive mode, to the A00000041000010001 card application.*
10	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*Attempt to connect to the A00000041000010001 card application. Ensure a non-exclusive connection attempt shall fail when an exclusive connection already exists.*
10	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_EXCLUSIVE_NOT_AVAILABLE*	*Return of previous SAL Proxy call: Attempt to connect to the A00000041000010001 card application. Ensure a non-exclusive connection attempt shall fail when an exclusive connection already exists.*
11	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: true*	*Attempt to connect, in exclusive mode, to the A00000041000010001 card application. This shall fail as the A00000041000010001 application already has an exclusive connection to it.*

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ID	Action	Arguments	Description
11	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_EXCLUSIVE_NOT_AVAILABLE*	*Return of previous SAL Proxy call: Attempt to connect, in exclusive mode, to the A00000041000010001 card application. This shall fail as the A00000041000010001 application already has an exclusive connection to it.*
12	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *action: null*	*Disconnect the exclusive connection from the A00000041000010001 card application.*
12	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Disconnect the exclusive connection from the A00000041000010001 card application.*
13	*cardApplication Create*	*CardApplicationCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *cardApplicationName: A00000041000020001* *cardApplicationACL:* *accessRule:*	*Create the A00000041000020001 application with an empty access control list. No access rule is the same as an access rule that is set to never.*
13	*cardApplication Create*	*CardApplicationCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the A00000041000020001 application with an empty access control list. No access rule is the same as an access rule that is set to never.*
14	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:*	*A connection is not allowed as there is no access rule for the CardApplicationConnect action.*

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ID	Action	Arguments	Description
		protocolTerminationPoint: http://smartcard-host.net *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000020001* *exclusiveUse: false*	
14	*cardApplicationConnect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result: null* *returnCode: API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: A connection is not allowed as there is no access rule for the CardApplicationConnect action.*
15	*cardApplicationDelete*	*CardApplicationDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *cardApplicationName: A00000041000020001*	*Delete the inaccessible A00000041000020001 card application.*
15	*cardApplicationDelete*	*CardApplicationDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the inaccessible A00000041000020001 card application.*
16	*cardApplicationConnect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*Connect to the A00000041000010001 card application.*
16	*cardApplicationConnect*	*CardApplicationConnectReturn* *transactionIdentifier: null*	*Return of previous SAL Proxy call: Connect to*

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ID	Action	Arguments	Description
		result: *connectionHandle: 1* *returnCode: API_OK*	*the A00000041000010001 card application.*
17	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: InternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to update the smartcard.*
17	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to update the smartcard.*
18	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: MangExternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the MangExternalCert DID. This, combined with InternalCert, shall provide us with management permissions to update the certificate.*
18	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the MangExternalCert DID. This, combined with InternalCert, shall provide us with management permissions to update the certificate.*
19	*cardApplication Create*	*CardApplicationCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Attempt to create the A00000041000020001 application. Ensure that card applications*

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ID	Action	Arguments	Description
		cardApplicationName: A00000041000020001 *cardApplicationACL:* *accessRule:* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *always: true*	*can only be created when connected to the Alpha card application.*

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ID	Action	Arguments	Description
		cardApplicationService: NamedData *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *always: true*	
19	*cardApplication Create*	*CardApplicationCreateReturn* *transactionIdentifier: null* *returnCode:* *API_PREREQUISITE_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to create the A00000041000020001 application. Ensure that card applications can only be created when connected to the Alpha card application.*
20	*cardApplication Delete*	*CardApplicationDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *cardApplicationName: A00000041000010001*	*Attempt to delete the A00000041000010001 application. Ensure that card applications can only be deleted when connected to the Alpha card application.*
20	*cardApplication Delete*	*CardApplicationDeleteReturn* *transactionIdentifier: null* *returnCode:* *API_PREREQUISITE_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to delete the A00000041000010001*

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ID	Action	Arguments	Description
			application. Ensure that card applications can only be deleted when connected to the Alpha card application.
21	*cardApplication Disconnect*	*CardApplicationDisconnectCall transactionIdentifier: null argument: connectionHandle: 1 action: null*	*Disconnect from the A00000041000010001 card application as local DIDs were authenticated.*
21	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Disconnect from the A00000041000010001 card application as local DIDs were authenticated.*
22	*cardApplication Create*	*CardApplicationCreateCall transactionIdentifier: null argument: connectionHandle: 0 cardApplicationName: A00000041000020001 cardApplicationACL: accessRule: cardApplicationService: Connectionn action: connectionServiceAction: CardApplicationConnect securityCondition: always: true*	*Attempt to create the A00000041000020001 application with an invalid service name in the access control list. The service name of the first access rule is 'Connectionn'. Ensure that an invalid service name shall generate an error.*
22	*cardApplication Create*	*CardApplicationCreateReturn transactionIdentifier: null returnCode: API_INCORRECT_PARAMETER*	*Return of previous SAL Proxy call: Attempt to create the A00000041000020001 application with an invalid service name in the access control list. The service name of the first access rule is 'Connectionn'. Ensure that an invalid service name shall generate an error.*

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ID	Action	Arguments	Description
23	*cardApplication Create*	*CardApplicationCreateCall transactionIdentifier: null argument: connectionHandle: 0 cardApplicationName: A00000041000020001 cardApplicationACL: accessRule: cardApplicationService: Connection action: connectionServiceAction: DSIRead securityCondition: always: true*	*Attempt to create the A00000041000020001 application with an invalid action name in the access control list. The action name of the first access rule is 'DSIRead'. 'DSIRead' is a valid action name but not in the 'connectionServiceAction' choice field. Ensure that an invalid action name shall generate an error.*
23	*cardApplication Create*	*CardApplicationCreateReturn transactionIdentifier: null returnCode: API_INCORRECT_PARAMETER*	*Return of previous SAL Proxy call: Attempt to create the A00000041000020001 application with an invalid action name in the access control list. The action name of the first access rule is 'DSIRead'. 'DSIRead' is a valid action name but not in the 'connectionServiceAction' choice field. Ensure that an invalid action name shall generate an error.*
24	*cardApplication Create*	*CardApplicationCreateCall transactionIdentifier: null argument: connectionHandle: 0 cardApplicationName: A00000041000020001 cardApplicationACL: accessRule: cardApplicationService: Connection action: connectionServiceAction: CardApplicationConnect securityCondition: didAuthentication: didName: UnknownDID*	*Attempt to create the A00000041000020001 application with an unknown DID name in the access control list. The DID name of the first access rule is 'UnknownDID'. Ensure that an unknown DID shall return an error.*

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: false*	
24	*cardApplication Create*	*CardApplicationCreateReturn* *transactionIdentifier: null* *returnCode: API_INCORRECT_PARAMETER*	*Return of previous SAL Proxy call: Attempt to create the A00000041000020001 application with an unknown DID name in the access control list. The DID name of the first access rule is 'UnknownDID'. Ensure that an unknown DID shall return an error.*
25	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	*Disconnect from the Alpha card application. The next test requires no open Alpha card application connections.*
25	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Disconnect from the Alpha card application. The next test requires no open Alpha card application connections.*
26	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 9* *action: null*	*Attempt to disconnect from the Alpha card application. Ensure that an invalid connection handle shall return an error.*
26	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_INCORRECT_PARAMETER*	*Return of previous SAL Proxy call: Attempt to disconnect from the Alpha card application. Ensure that an invalid connection handle shall return an error.*
27	*cardApplication*	*CardApplicationConnectCall* *transactionIdentifier: null*	*Post-condition: Connect to the Alpha*

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ID	Action	Arguments	Description
	Connect	*argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: E82881C11702* *exclusiveUse: false*	*card application.*
27	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Connect to the Alpha card application.*
28	*cardApplication List*	*CardApplicationListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Post-condition: Ensure the CardApplicationList only contains the Alpha card application.*
28	*cardApplication List*	*CardApplicationListReturn* *transactionIdentifier: null* *result:* *cardApplicationNameList: E82881C11702* *A00000041000010001* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Ensure the CardApplicationList only contains the Alpha card application.*
29	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	*Post-condition: Disconnect from the Alpha card application. Transmit on the IFDProxy shall be invoked to transmit the CardApplicationDisconnect APDU to the Alpha card application. After transmit has completed, disconnect shall be invoked on the IFDProxy.*

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ID	Action	Arguments	Description
29	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the Alpha card application. Transmit on the IFDProxy shall be invoked to transmit the CardApplicationDisconnect APDU to the Alpha card application. After transmit has completed, disconnect shall be invoked on the IFDProxy.*
30	*terminate*	*TerminateCall transactionIdentifier: null*	*Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*
30	*terminate*	*TerminateReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*

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A.4 Application management – second application data structure construction

This scenario shall test the creation of an additional card-application other than the alpha card-application as well as data structures and their associated security features. All tests shall pass i.e. not failure testing.

Detailed test data for each CUT is defined in Annex B.4, Annex C.4 and Annex D.4

Table A.4 —SAL Sequence – Application management – second application data structure construction

ID	Action	Arguments	Description
1	*initialize*	*InitializeCall transactionIdentifier: null*	*Initialise the SAL Proxy.*
1	*initialize*	*InitializeReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Initialise the SAL Proxy.*

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ID	Action	Arguments	Description
2	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: E82881C11702* *exclusiveUse: false*	*Pre-condition: Connect to the Alpha card application. This shall first invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. The IFD Name shall need to be replaced with an actual reader name when comparing the results to results from an ISO247272 stack.*
2	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Connect to the Alpha card application. This shall first invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. The IFD Name shall need to be replaced with an actual reader name when comparing the results to results from an ISO247272 stack.*
3	*cardApplication List*	*CardApplicationListCall* *transactionIdentifier: null*	*Pre-condition: Retrieve the Alpha card*

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ID	Action	Arguments	Description
		argument: *connectionHandle: 0*	*application DID list of global DIDs. Ensure the CardApplicationList only contains the Alpha and card holder (A00000041000010001) card applications.*
3	*cardApplication List*	*CardApplicationListReturn* *transactionIdentifier: null* *result:* *cardApplicationNameList:* *E82881C11702* *A00000041000010001* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the Alpha card application DID list of global DIDs. Ensure the CardApplicationList only contains the Alpha and card holder (A00000041000010001) card applications.*
4	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000020001* *exclusiveUse: false*	*Pre-condition: Ensure the A00000041000020001 card application does not exist at the following location: IFD Name: Blue IFD Reader SN2432A4; Slot: 1. An error response (API_INCORRECT_PARAMETER) is expected.*
4	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result: null* *returnCode: API_INCORRECT_PARAMETER*	*Return of previous SAL Proxy call: Pre-condition: Ensure the A00000041000020001 card application does not exist at the following location: IFD Name: Blue IFD Reader SN2432A4; Slot: 1. An error response*

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ID	Action	Arguments	Description
			(API_INCORRECT_PARAMETER) is expected.
5	*cardApplicationCreate*	*CardApplicationCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *cardApplicationName: A00000041000020001* *cardApplicationACL:* *accessRule:* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:*	*Create the A00000041000020001 application.*

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ID	Action	Arguments	Description
		authorizationServiceAction: ACLModify *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *always: true*	
5	*cardApplication Create*	*CardApplicationCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the A00000041000020001 application.*
6	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null*	*Connect to the newly created card application.*

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ID	Action	Arguments	Description
		binding: null *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000020001* *exclusiveUse: false*	
6	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Connect to the newly created card application.*
7	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001*	*Retrieve the A00000041000020001 card application access rules. Ensure that the ACL is the same as the one specified in the CardApplicationCreate call.*
7	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *always: true* *cardApplicationService: Authorization*	*Return of previous SAL Proxy call: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL is the same as the one specified in the CardApplicationCreate call.*

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ID	Action	Arguments	Description
		action: *authorizationServiceAction: ACLModify* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:*	

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ID	Action	Arguments	Description
		always: true *returnCode: API_OK*	
8	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *filter: null*	*Retrieve the A00000041000020001 card application DID list. Ensure that the DID list is empty. A newly created card application should have an empty DID list.*
8	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the A00000041000020001 card application DID list. Ensure that the DID list is empty. A newly created card application should have an empty DID list.*
9	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Retrieve the A00000041000020001 card application data set list. Ensure that the data set list is empty. A newly created card application should have an empty data set list.*
9	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the A00000041000020001 card application data set list. Ensure that the data set list is empty. A newly created card application should have an empty data set list.*
10	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: InternalCert*	*Create the internal certificate DID. The internal certificate DID is used to verify that this is a valid*

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ID	Action	Arguments	Description
		authProtocolOID: *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction:* *DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false*	*smartcard. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. One of these may not have yet been created. This DID is actually a Simple Assertion DID, not an Client Application Asymmetric Internal Authentication DID. This simplifies the test case. Ensure that multiple DIDs with the same name can exist in multiple card applications.*

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ID	Action	Arguments	Description
		cardApplicationService: Cryptographic action: cryptographicServiceAction: VerifyCertificate securityCondition: never: false cardApplicationService: Authorization action: authorizationServiceAction: ACLList securityCondition: always: true cardApplicationService: Authorization action: authorizationServiceAction: ACLModify securityCondition: always: true	
10	*didCreate*	*DIDCreateReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Create the internal certificate DID. The internal certificate DID is used to verify that this is a valid smartcard. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. One of these may not have yet been created. This DID is actually a Simple Assertion DID, not an Client Application Asymmetric Internal Authentication DID. This simplifies the test case. Ensure that multiple DIDs with the same name can exist in multiple card applications.*
11	*didCreate*	*DIDCreateCall transactionIdentifier: null argument:*	*Create the management external certificate DID. The management*

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ID	Action	Arguments	Description
		connectionHandle: 1 *didName: MangExternalCert* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature*	*external certificate DID is used to provide an external party with full privileges. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*

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ID	Action	Arguments	Description
		securityCondition: *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true*	
11	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the management external certificate DID. The management external certificate DID is used to provide an external party with full privileges. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*
12	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: DIFFERENTIAL-IDENTITY* *targetName:*	*Modify the DIDUpdate access rule of the internal certificate DID. Modification of this DID requires self authentication. Ensure*

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ID	Action	Arguments	Description
		didName: InternalCert *cardApplicationServiceName: DifferentialIdentity* *actionName: differentialIdentityServiceAction: DIDUpdate* *securityCondition: and:* *securityCondition: didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*that a DID ACL can refer to itself.*
12	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDUpdate access rule of the internal certificate DID. Modification of this DID requires self authentication. Ensure that a DID ACL can refer to itself.*
13	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: InternalCert* *cardApplicationServiceName: Authorization* *actionName: authorizationServiceAction: ACLModify* *securityCondition: and:* *securityCondition: didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL*	*Modify the ACLModify access rule of the internal certificate DID. Modification of this DID requires self authentication. Ensure that a DID ACL can refer to itself.*

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ID	Action	Arguments	Description
		didState: true	
13	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the ACLModify access rule of the internal certificate DID. Modification of this DID requires self authentication. Ensure that a DID ACL can refer to itself.*
14	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: MangExternalCert* *cardApplicationServiceName: DifferentialIdentity* *actionName:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Modify the DIDUpdate access rule of the management external certificate DID. Modification of this DID requires self authentication. Ensure that a DID ACL can refer to itself.*
14	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDUpdate access rule of the management external certificate DID. Modification of this DID requires self authentication. Ensure that a DID ACL can refer to itself.*
15	*aclModify*	*ACLModifyCall*	*Modify the ACLModify*

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ID	Action	Arguments	Description
		transactionIdentifier: null *argument:* *connectionHandle: 1* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: MangExternalCert* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*access rule of the management external certificate DID. Modification of this DID requires self authentication. Ensure that a DID ACL can refer to itself.*
15	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the ACLModify access rule of the management external certificate DID. Modification of this DID requires self authentication. Ensure that a DID ACL can refer to itself.*
16	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: CHPIN* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:*	*Create the Card Holder PIN DID. The Card Holder is required to enter a PIN to authenticate this DID. This DID is actually a Simple Assertion DID, not an Client-Application Secure PIN Compare Authentication DID. This simplifies the test case.*

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ID	Action	Arguments	Description
		always: true *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction:* *DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:*	

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ID	Action	Arguments	Description
		cryptographicServiceAction: VerifyCertificate *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
16	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the Card Holder PIN DID. The Card Holder is required to enter a PIN to authenticate this DID. This DID is actually a Simple Assertion DID, not an Client-Application Secure PIN Compare Authentication DID. This simplifies the test case.*
17	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: AlphaExternalCert* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null*	*Create the Alpha External Certificate DID. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*

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ID	Action	Arguments	Description
		didACL: *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction:* *DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic*	

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ID	Action	Arguments	Description
		action: *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
17	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the Alpha External Certificate DID. This DID is actually a Simple Assertion DID, not an Client Application External Authenticate with Certificates DID. This simplifies the test case.*
18	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: BetaExternalCert* *authProtocolOID:* *id: 1.0.24727.3.0.3*	*Create the Beta External Certificate DID. The client systems using the smart card must provide a valid Certificate signed by the Beta certificate*

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ID	Action	Arguments	Description
		didUpdateData: *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign*	*authority certificate to authenticate this DID.*

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ID	Action	Arguments	Description
		securityCondition: *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
18	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the Beta External Certificate DID. The client systems using the smart card must provide a valid Certificate signed by the Beta certificate authority certificate to authenticate this DID.*
19	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Modify the DataSetList access rule of the A00000041000020001 application: Internal*

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ID	Action	Arguments	Description
		targetType: CARD-APPLICATION *targetName:* *cardApplicationName: A00000041000020001* *cardApplicationServiceName: NamedData* *actionName:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false*	*AND (CHPIN OR MangExternalCert OR AlphaExternalCert).*
19	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DataSetList access rule of the A00000041000020001 application: Internal AND (CHPIN OR MangExternalCert OR AlphaExternalCert).*
20	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001* *cardApplicationServiceName: NamedData* *actionName:* *namedDataServiceAction: DataSetCreate*	*Modify the DataSetCreate access rule of the A00000041000020001 application: Internal AND MangExternalCert.*

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ID	Action	Arguments	Description
		securityCondition: *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
20	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DataSetCreate access rule of the A00000041000020001 application: Internal AND MangExternalCert.*
21	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001* *cardApplicationServiceName: NamedData* *actionName:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Modify the DataSetDelete access rule of the A00000041000020001 application: Internal AND MangExternalCert.*
21	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DataSetDelete access rule of the A00000041000020001*

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ID	Action	Arguments	Description
			application: Internal AND MangExternalCert.
22	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001* *cardApplicationServiceName: DifferentialIdentity* *actionName:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Modify the DIDCreate access rule of the A00000041000020001 application: Internal AND MangExternalCert.*
22	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDCreate access rule of the A00000041000020001 application: Internal AND MangExternalCert.*
23	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001* *cardApplicationServiceName: DifferentialIdentity* *actionName:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:*	*Modify the DIDDelete access rule of the A00000041000020001 application: Internal AND MangExternalCert.*

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ID	Action	Arguments	Description
		and: *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
23	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the DIDDelete access rule of the A00000041000020001 application: Internal AND MangExternalCert.*
24	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Modify the ACLModify access rule of the A00000041000020001 application: Internal AND MangExternalCert.*
24	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify the ACLModify access rule of the A00000041000020001 application: Internal*

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ID	Action	Arguments	Description
			AND MangExternalCert.
25	*aclModify*	*ACLModifyCall transactionIdentifier: null argument: connectionHandle: 1 targetType: CARD-APPLICATION targetName: cardApplicationName: A00000041000020001 cardApplicationServiceName: CardApplication actionName: cardApplicationServiceAction: CardApplicationList securityCondition: never: false*	*Attempt to modify the CardApplicationList access rule of the A00000041000020001 application. This ACLModify shall fail as the previous ACLModify restricts permissions to modify A00000041000020001's ACLs. Ensure the ACLModify access rule is enforced.*
25	*aclModify*	*ACLModifyReturn transactionIdentifier: null returnCode: API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to modify the CardApplicationList access rule of the A00000041000020001 application. This ACLModify shall fail as the previous ACLModify restricts permissions to modify A00000041000020001's ACLs. Ensure the ACLModify access rule is enforced.*
26	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 1 didScope: LOCAL didName: InternalCert authenticationProtocolData: samConnectionHandle: null*	*Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to update the smartcard.*
26	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the InternalCert DID. This, combined with MangExternalCert,*

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ID	Action	Arguments	Description
			shall provide us with management permissions to update the smartcard.
27	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: MangExternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the MangExternalCert DID. This shall provide us with management permissions to update the certificate.*
27	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the MangExternalCert DID. This shall provide us with management permissions to update the certificate.*
28	*dataSetCreate*	*DataSetCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS1* *dataSetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetSelect* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:*	*Create the 2-DS1 A00000041000020001 dataset. All authenticated users, except Beta, can read this information. Only management can update this information.*

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ID	Action	Arguments	Description
		didName: MangExternalCert *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSICreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIDelete*	

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ID	Action	Arguments	Description
		securityCondition: *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIWrite* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIRead* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL*	

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ID	Action	Arguments	Description
		didState: false *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
28	*dataSetCreate*	*DataSetCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 2-DS1 A00000041000020001 dataset. All authenticated users, except Beta, can read this information. Only management can update this information.*
29	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 2-DS1-DSI1* *dsiContent:* *49443A2031323334353B20436C6173733A204* *33B20526573747269637469 6F6E733A204E6* *F6E653B20506F696E74733A203132*	*Create the 2-DS1-DSI1 DSI. A DataSetCreate call automatically selects the new DataSet. Ensure that a DSI can be created in the 2-DS1 DataSet without needing to invoke DataSetSelect.*
29	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 2-DS1-DSI1 DSI. A DataSetCreate call automatically selects*

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ID	Action	Arguments	Description
			the new DataSet. Ensure that a DSI can be created in the 2-DS1 DataSet without needing to invoke DataSetSelect.
30	*dataSetCreate*	*DataSetCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS2* *dataSetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetSelect* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true*	*Create the 2-DS2 dataset. All authenticated users, except Beta, can read this information. Only management can update this information.*

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ID	Action	Arguments	Description
		or: *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSICreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIWrite* *securityCondition:* *and:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIRead* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:*	

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ID	Action	Arguments	Description
		didName: MangExternalCert *didScope: LOCAL* *didState: true*	
30	*dataSetCreate*	*DataSetCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 2-DS2 dataset. All authenticated users, except Beta, can read this information. Only management can update this information.*
31	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 2-DS2-DSI1* *dsiContent:* *49443A2036373839303B20436C6173733A204D3B20526573747269637469F6E733A204E6F6E653B2056616C6964204C6F63616C697469657733A20417573747261616C69616E205761746572733B20506F696E74733A203132*	*Create the 2-DS2-DSI1 DSI. A DataSetCreate call automatically selects the new DataSet. Ensure that a DSI can be created in the 2-DS1 DataSet without needing to invoke DataSetSelect.*
31	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 2-DS2-DSI1 DSI. A DataSetCreate call automatically selects the new DataSet. Ensure that a DSI can be created in the 2-DS1 DataSet without needing to invoke DataSetSelect.*
32	*dataSetCreate*	*DataSetCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: AccessLog* *dataSetACL:* *accessRule:* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetSelect*	*Create the AccessLog dataset. Only the card holder (CHPIN) can read this information and only if logging has been enabled by authenticating with the global LogAccess DID. The information is updated by the*

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ID	Action	Arguments	Description
		securityCondition: *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSICreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL*	*DataSetSelect method. Ensure that a DataSet with the same name can exist in multiple card applications.*

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ID	Action	Arguments	Description
		didState: true *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIWrite* *securityCondition:* *never: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIRead* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AccessLog* *didScope: GLOBAL* *didState: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization*	

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ID	Action	Arguments	Description
		action: *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
32	*dataSetCreate*	*DataSetCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the AccessLog dataset. Only the card holder (CHPIN) can read this information and only if logging has been enabled by authenticating with the global LogAccess DID. The information is updated by the DataSetSelect method. Ensure that a DataSet with the same name can exist in multiple card applications.*
33	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: AccessLog* *dsiContent:*	*Create the AccessLog DSI. Ensure that a DSI with the same name can exist in multiple card applications.*
33	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the AccessLog DSI. Ensure that a DSI with the same name can exist in multiple card applications.*
34	*didAuthenticate*	*DIDAuthenticateCall*	*Pre-condition:*

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ID	Action	Arguments	Description
		transactionIdentifier: null *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: CHPIN* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
34	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
35	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001*	*Post-condition: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL has been updated appropriately.*
35	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:*	*Return of previous SAL Proxy call: Post-condition: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL has been updated appropriately.*

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ID	Action	Arguments	Description
		CardApplicationList *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL*	

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ID	Action	Arguments	Description
		didState: true *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:*	

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ID	Action	Arguments	Description
		securityCondition: *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
36	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *filter: null*	*Post-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the data set list contains the newly created DIDs.*
36	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *CHPIN* *InternalCert* *BetaExternalCert* *MangExternalCert* *AlphaExternalCert* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the data set list contains the newly created DIDs.*
37	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Post-condition: Retrieve the A00000041000020001 card application DataSet list. Ensure that the DataSet list*

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ID	Action	Arguments	Description
			contains the newly created DataSets.
37	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *2-DS1* *2-DS2* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the A00000041000020001 card application DataSet list. Ensure that the DataSet list contains the newly created DataSets.*
38	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS1*	*Post-condition: Select the 2-DS1 DataSet.*
38	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Select the 2-DS1 DataSet.*
39	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Post-condition: Retrieve the 2-DS1 DSI list. Ensure that the DSI list contains the newly created DSIs.*
39	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *2-DS1-DSI1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the 2-DS1 DSI list. Ensure that the DSI list contains the newly created DSIs.*
40	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS2*	*Post-condition: Select the 2-DS2 DataSet.*
40	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Select the 2-DS2 DataSet.*

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ID	Action	Arguments	Description
41	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Post-condition: Retrieve the 2-DS2 DSI list. Ensure that the DSI list contains the newly created DSIs.*
41	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *2-DS2-DSI1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the 2-DS2 DSI list. Ensure that the DSI list contains the newly created DSIs.*
42	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: AccessLog*	*Post-condition: Select the AccessLog DataSet.*
42	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Select the AccessLog DataSet.*
43	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Post-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the newly created DSI.*
43	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the newly created DSI.*
44	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *action: null*	*Post-condition: Disconnect from the A00000041000020001 card application.*
44	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the*

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ID	Action	Arguments	Description
			A00000041000020001 card application.
45	*cardApplication Disconnect*	*CardApplicationDisconnectCall transactionIdentifier: null argument: connectionHandle: 0 action: null*	*Post-condition: Disconnect from the Alpha card application. Transmit on the IFDProxy shall be invoked to transmit the CardApplicationDisconnect APDU to the Alpha card application. After transmit has completed, disconnect shall be invoked on the IFDProxy.*
45	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the Alpha card application. Transmit on the IFDProxy shall be invoked to transmit the CardApplicationDisconnect APDU to the Alpha card application. After transmit has completed, disconnect shall be invoked on the IFDProxy.*
46	*terminate*	*TerminateCall transactionIdentifier: null*	*Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*
46	*terminate*	*TerminateReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*

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A.5 Data manipulation - card application path

This scenario shall test the card application path functionality.

Detailed test data for each CUT is defined in Annex B.5 and Annex C.5

Table A.5 —SAL Sequence – Data manipulation - card application path

ID	Action	Arguments	Description
1	*initialize*	*InitializeCall* *transactionIdentifier: null*	*Initialise the SAL Proxy.*
1	*initialize*	*InitializeReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Initialise the SAL Proxy.*
2	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*Pre-condition: Ensure the A00000041000010001 card application exist. This shall automatically invoke Open on the TC layer and then EstablishContext on the IFDProxy as connectivity to the smartcard host has not yet been established. Then it shall invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. If the sessionIdentifier field in the ChannelHandle is null then the SAL Proxy shall create a new TC connection. If the sessionIdentifier field is not null then the TC connection must*

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ID	Action	Arguments	Description
			exist at this point. In this case sessionIdentifier is null. Ensure that the card application exists at the following location: Host: http://smartcard-host.net; IFD Name: Blue IFD Reader SN2432A4; Slot: 1. The smartcard path shall be replaced when comparing the results to those from an ISO247272 stack.
2	*cardApplicationConnect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 0 returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Ensure the A00000041000010001 card application exist. This shall automatically invoke Open on the TC layer and then EstablishContext on the IFDProxy as connectivity to the smartcard host has not yet been established. Then it shall invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. If the sessionIdentifier field in the ChannelHandle is null then the SAL Proxy shall create a new TC connection. If*

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ID	Action	Arguments	Description
			the sessionIdentifier field is not null then the TC connection must exist at this point. In this case sessionIdentifier is null. Ensure that the card application exists at the following location: Host: http://smartcard-host.net; IFD Name: Blue IFD Reader SN2432A4; Slot: 1. The smartcard path shall be replaced when comparing the results to those from an ISO247272 stack.
3	*cardApplication Disconnect*	*CardApplicationDisconnectCall transactionIdentifier: null argument: connectionHandle: 0 action: null*	*Pre-condition: Disconnect from the previous connect.*
3	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Disconnect from the previous connect.*
4	*cardApplication Connect*	*CardApplicationConnectCall transactionIdentifier: null argument: cardApplicationPath: pathSecurity: null channelHandle: protocolTerminationPoint: http://smartcard-host.net sessionIdentifier: null binding: null contextHandle: null ifdName: Blue IFD Reader SN2432A4 slotIndex: 1 cardApplication: A00000041000010001 exclusiveUse: false*	*Pre-condition: Ensure the A00000041000010001 card application exists at the following location: IFD Name: Blue IFD Reader SN2432A4; Slot: 2.*

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ID	Action	Arguments	Description
4	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 0 returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Ensure the A00000041000010001 card application exists at the following location: IFD Name: Blue IFD Reader SN2432A4; Slot: 2.*
5	*cardApplication Disconnect*	*CardApplicationDisconnectCall transactionIdentifier: null argument: connectionHandle: 0 action: null*	*Pre-condition: Disconnect from the previous connect.*
5	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Disconnect from the previous connect.*
6	*cardApplication Connect*	*CardApplicationConnectCall transactionIdentifier: null argument: cardApplicationPath: pathSecurity: null channelHandle: protocolTerminationPoint: http://smartcard-host.net sessionIdentifier: null binding: null contextHandle: null ifdName: Blue IFD Reader SN2432A4 slotIndex: 1 cardApplication: A00000041000010001 exclusiveUse: false*	*Pre-condition: Ensure the A00000041000010001 card application exists at the following location: IFD Name: Red IFD Reader SNXRDL4; Slot: 1.*
6	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 0 returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Ensure the A00000041000010001 card application exists at the following location: IFD Name: Red IFD Reader SNXRDL4; Slot: 1.*

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ID	Action	Arguments	Description
7	*cardApplication Disconnect*	*CardApplicationDisconnectCall transactionIdentifier: null argument: connectionHandle: 0 action: null*	*Pre-condition: Disconnect from the previous connect.*
7	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Disconnect from the previous connect.*
8	*terminate*	*TerminateCall transactionIdentifier: null*	*Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*
8	*terminate*	*TerminateReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*
9	*initialize*	*InitializeCall transactionIdentifier: null*	*Initialise the SAL Proxy. This shall automatically invoke EstablishContext on the IFDProxy.*
9	*initialize*	*InitializeReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Initialise the SAL Proxy. This shall automatically invoke EstablishContext on the IFDProxy.*
10	*cardApplication Path*	*CardApplicationPathCall transactionIdentifier: null argument: cardAppPathRequest: pathSecurity: null channelHandle: protocolTerminationPoint: http://smartcard-host.net sessionIdentifier: null binding: null*	*Retrieve all slots that contain an ISO24727 smartcard that contain a card application named A00000041000010001. First invoke IFD.EstablishContext as it has not yet been invoked. Then invoke*

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ID	Action	Arguments	Description
		contextHandle: null *ifdName: null* *slotIndex: null* *cardApplication: A00000041000010001*	*IFD.GetStatus to return all available slots that contain a smartcard. A SAL.CardApplicationConnect action shall be invoked for each IFD slot that contains a smartcard. Each successful SAL.CardApplicationConnect action shall also have a corresponding SAL.CardApplicationDisconnect action.*
10	*cardApplicationConnect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	
11	*cardApplicationConnect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call:*
11	*cardApplicationDisconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	
12	*cardApplicationDisconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call:*

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ID	Action	Arguments	Description
12	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 2* *cardApplication: A00000041000010001* *exclusiveUse: false*	
13	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call:*
13	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	
14	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call:*
14	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Red IFD Reader SNXRDL4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	

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ID	Action	Arguments	Description
15	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call:*
15	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	
16	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call:*
16	*cardApplication Path*	*CardApplicationPathReturn* *transactionIdentifier: null* *result:* *cardAppPathResultSet:* *cardApplicationPathInfo:* *pathSecurity: null* *channelHandle: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *pathSecurity: null* *channelHandle: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 2* *cardApplication: A00000041000010001* *pathSecurity: null* *channelHandle: null* *contextHandle: null* *ifdName: Red IFD Reader SNXRDL4* *slotIndex: 1* *cardApplication: A00000041000010001* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve all slots that contain an ISO24727 smartcard that contain a card application named A00000041000010001. First invoke IFD.EstablishContext as it has not yet been invoked. Then invoke IFD.GetStatus to return all available slots that contain a smartcard. A SAL.CardApplicationConnect action shall be invoked for each IFD slot that contains a smartcard. Each successful SAL.CardApplicationConnect action shall also have a corresponding SAL.CardApplicationDisconnect action.*
17	*terminate*	*TerminateCall* *transactionIdentifier: null*	*Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*

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ID	Action	Arguments	Description
17	*terminate*	*TerminateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*

A.6 Data manipulation – general

This scenario shall test the manipulation of a card-application as well as data structures and their associated security features.

Detailed test data for each CUT is defined in Annex B.8, Annex C.6 and Annex D.5

Table A.6 —SAL Sequence – Data manipulation - general

ID	Action	Arguments	Description
1	*initialize*	*InitializeCall* *transactionIdentifier: null*	*Initialise the SAL Proxy.*
1	*initialize*	*InitializeReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Initialise the SAL Proxy.*
2	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*Pre-condition: Connect to the A00000041000010001 card application. This shall automatically invoke Open on the TC layer and then EstablishContext on the IFDProxy as connectivity to the smartcard host has not yet been established. Then it shall invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on the IFDProxy shall be invoked to transmit the CardApplicationConne*

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ID	Action	Arguments	Description
			ct APDU to the Alpha card application. If the sessionIdentifier field in the ChannelHandle is null then the SAL Proxy shall create a new TC connection. If the sessionIdentifier field is not null then the TC connection must exist at this point. In this case sessionIdentifier is null. Ensure that the card application exists at the following location: Host: http://smartcard-host.net; IFD Name: Blue IFD Reader SN2432A4; Slot: 1. The smartcard path shall be replaced when comparing the results to those from an ISO247272 stack.
2	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 0 returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Connect to the A00000041000010001 card application. This shall automatically invoke Open on the TC layer and then EstablishContext on the IFDProxy as connectivity to the smartcard host has not yet been established. Then it shall invoke connect on the IFDProxy. In turn connect shall be invoked on the IFD layer on the client side. After connect has completed, transmit on*

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ID	Action	Arguments	Description
			the IFDProxy shall be invoked to transmit the CardApplicationConnect APDU to the Alpha card application. If the sessionIdentifier field in the ChannelHandle is null then the SAL Proxy shall create a new TC connection. If the sessionIdentifier field is not null then the TC connection must exist at this point. In this case sessionIdentifier is null. Ensure that the card application exists at the following location: Host: http://smartcard-host.net; IFD Name: Blue IFD Reader SN2432A4; Slot: 1. The smartcard path shall be replaced when comparing the results to those from an ISO247272 stack.
3	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: InternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
3	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all*

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ID	Action	Arguments	Description
			of the smartcard.
4	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: MangExternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with management permissions to view all of the smart card.*
4	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with management permissions to view all of the smart card.*
5	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: CHPIN* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
5	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
6	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001*	*Pre-condition: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL is as expected.*
6	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the*

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ID	Action	Arguments	Description
		targetACL: *accessRule:* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction: ExecuteAction* *securityCondition:* *never: false* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication*	*A00000041000020001 card application access rules. Ensure that the ACL is as expected.*

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ID	Action	Arguments	Description
		action: *cardApplicationServiceAction:* *CardApplicationDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceList* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceLoad* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceCreate* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDelete* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDescribe* *securityCondition:* *never: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:*	

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ID	Action	Arguments	Description
		didName: InternalCert *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL*	

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ID	Action	Arguments	Description
		didState: true *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
7	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:*	*Pre-condition: Retrieve the A00000041000010001*

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ID	Action	Arguments	Description
		connectionHandle: 0 *filter: null*	*card application DID list. Ensure that the DID list contains the expected DIDs.*
7	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *CHPIN* *InternalCert* *BetaExternalCert* *MangExternalCert* *AlphaExternalCert* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000010001 card application DID list. Ensure that the DID list contains the expected DIDs.*
8	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the A00000041000010001 card application DataSet list. Ensure that the DataSet list contains the two data sets.*
8	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *1-DS1* *1-DS2* *1-DS3* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000010001 card application DataSet list. Ensure that the DataSet list contains the two data sets.*
9	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS1*	*Pre-condition: Select the 1-DS1 DataSet.*
9	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 1-DS1 DataSet.*

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ID	Action	Arguments	Description
10	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the 1-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
10	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *1-DS1-DSI1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 1-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
11	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS2*	*Pre-condition: Select the 1-DS2 DataSet.*
11	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 1-DS2 DataSet.*
12	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the 1-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
12	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *1-DS2-DSI1* *1-DS2-DSI2* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 1-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
13	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS3*	*Pre-condition: Select the 1-DS3 DataSet.*

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ID	Action	Arguments	Description
13	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 1-DS3 DataSet.*
14	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the 1-DS3 DSI list. Ensure that the DSI list contains the expected DSIs.*
14	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *1-DS3-DSI1* *1-DS3-DSI2* *1-DS3-DSI3* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 1-DS3 DSI list. Ensure that the DSI list contains the expected DSIs.*
15	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: AccessLog*	*Pre-condition: Select the AccessLog DataSet.*
15	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the AccessLog DataSet.*
16	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
16	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
17	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:*	*Pre-condition: The following set of actions shall test the*

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ID	Action	Arguments	Description
		cardApplicationPath: *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000020001* *exclusiveUse: false*	*A00000041000020001 card application pre-conditions.*
17	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: The following set of actions shall test the A00000041000020001 card application pre-conditions.*
18	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: InternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
18	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
19	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL*	*Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with*

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ID	Action	Arguments	Description
		didName: MangExternalCert *authenticationProtocolData:* *samConnectionHandle: null*	*management permissions to view all of the smart card, except the AccessLog.*
19	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with management permissions to view all of the smart card, except the AccessLog.*
20	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: CHPIN* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
20	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
21	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001*	*Pre-condition: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL contains the expected access rules.*
21	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: Authorization* *action:*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL contains the*

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ID	Action	Arguments	Description
		authorizationServiceAction: ACLList *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true*	*expected access rules.*

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ID	Action	Arguments	Description
		didAuthentication: *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:*	

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ID	Action	Arguments	Description
		differentialIdentityServiceAction: DIDDelete *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
22	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *filter: null*	*Pre-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the data set list contains the expected DIDs.*

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ID	Action	Arguments	Description
22	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *CHPIN* *InternalCert* *BetaExternalCert* *MangExternalCert* *AlphaExternalCert* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the data set list contains the expected DIDs.*
23	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the A00000041000020001 card application DataSet list. Ensure that the data set list contains the expected data sets.*
23	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *2-DS1* *2-DS2* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000020001 card application DataSet list. Ensure that the data set list contains the expected data sets.*
24	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS1*	*Pre-condition: Select the 2-DS1 data set.*
24	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 2-DS1 data set.*
25	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*

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ID	Action	Arguments	Description
25	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *2-DS1-DSI1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
26	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS2*	*Pre-condition: Select the 2-DS2 DataSet.*
26	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 2-DS2 DataSet.*
27	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
27	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *2-DS2-DSI1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
28	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: AccessLog*	*Pre-condition: Select the AccessLog DataSet.*
28	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the AccessLog DataSet.*

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ID	Action	Arguments	Description
29	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
29	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
30	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *action: null*	*Pre-condition: Disconnect from the A00000041000020001 card application as local DIDs were authenticated in this connection.*
30	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Disconnect from the A00000041000020001 card application as local DIDs were authenticated in this connection.*
31	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	*Pre-condition: Disconnect from the A00000041000010001 card application as local DIDs were authenticated in this connection.*
31	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Disconnect from the A00000041000010001 card application as local DIDs were authenticated in this connection.*

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ID	Action	Arguments	Description
32	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*Connect to the A00000041000010001 card application. The following set of actions shall test authentication of the A00000041000010001 application.*
32	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call: Connect to the A00000041000010001 card application. The following set of actions shall test authentication of the A00000041000010001 application.*
33	*cardApplication List*	*CardApplicationListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Retrieve the card application list while connected to the A00000041000010001 card application.. Ensure that the CardApplicationList action can be executed on a non-alpha card application.*
33	*cardApplication List*	*CardApplicationListReturn* *transactionIdentifier: null* *result:* *cardApplicationNameList:* *E82881C11702* *A00000041000010001* *A00000041000020001* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the card application list while connected to the A00000041000010001 card application.. Ensure that the CardApplicationList action can be executed on a non-alpha card application.*

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ID	Action	Arguments	Description
34	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: CHPIN*	*Retrieve the CHPIN DID access rules. Ensure the CHPIN DID's access control list can be retrieved.*
34	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false*	*Return of previous SAL Proxy call: Retrieve the CHPIN DID access rules. Ensure the CHPIN DID's access control list can be retrieved.*

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ID	Action	Arguments	Description
		cardApplicationService: Cryptographic *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction:* *DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
35	*didGet*	*DIDGetCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: CHPIN*	*Retrieve the CHPIN DID. Ensure the DID can be retrieved.*

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ID	Action	Arguments	Description
35	*didGet*	*DIDGetReturn* *transactionIdentifier: null* *result:* *didStructure:* *name: CHPIN* *protocol:* *id: 1.0.24727.3.0.3* *scope: LOCAL* *authenticated: false* *marker:* *qualifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the CHPIN DID. Ensure the DID can be retrieved.*
36	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Attempt to retrieve the A00000041000010001 card application DataSet list. This action is expected to fail as we have not yet authenticated the Internal and CHPIN DIDs in this connection.*
36	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to retrieve the A00000041000010001 card application DataSet list. This action is expected to fail as we have not yet authenticated the Internal and CHPIN DIDs in this connection.*
37	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: CHPIN* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate as the card holder (CHPIN).*
37	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null*	*Return of previous SAL Proxy call:*

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ID	Action	Arguments	Description
		result: *authenticationProtocolData:* *returnCode: API_OK*	*Authenticate as the card holder (CHPIN).*
38	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Attempt to retrieve the A00000041000010001 card application DataSet list. This action is expected to fail as we have not yet authenticated the Internal DID. Ensure that the AND access rule operator requires both operands to be true.*
38	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to retrieve the A00000041000010001 card application DataSet list. This action is expected to fail as we have not yet authenticated the Internal DID. Ensure that the AND access rule operator requires both operands to be true.*
39	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: InternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the InternalCert.*
39	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the InternalCert.*

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ID	Action	Arguments	Description
40	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Retrieve the A00000041000010001 card application DataSet list. This action shall now succeed. Ensure that the AND access rule operator requires both operands to be true.*
40	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *1-DS1* *1-DS2* *1-DS3* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the A00000041000010001 card application DataSet list. This action shall now succeed. Ensure that the AND access rule operator requires both operands to be true.*
41	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: DATA-SET* *targetName:* *datasetName: 1-DS1*	*Retrieve the 1-DS1 DataSet access rules. Ensure the 1-DS1 Data Set's access control list can be retrieved before executing a dataSetSelect operation.*
41	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIWrite* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert*	*Return of previous SAL Proxy call: Retrieve the 1-DS1 DataSet access rules. Ensure the 1-DS1 Data Set's access control list can be retrieved before executing a dataSetSelect operation.*

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSICreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false*	

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ID	Action	Arguments	Description
		cardApplicationService: NamedData *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIRead* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetSelect* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
42	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DSI*	*Select the 1-DS1 DataSet.*
42	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Select the 1-DS1 DataSet.*
43	*dsiRead*	*DSIReadCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dsiName: 1-DS1-DSI1*	*Retrieve the 1-DS1-DSI1 DSI contents. Ensure that a DSI can be read.*
43	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result:* *dsiContent:* *4E616D653A20426F62204D634C65616E3B20444F423A20323030382D31302D3033* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the 1-DS1-DSI1 DSI contents. Ensure that a DSI can be read.*
44	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:*	*Connect again to the A00000041000010001 card application. Ensure that a second connection does not inherit the first*

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ID	Action	Arguments	Description
		protocolTerminationPoint: http://smartcard-host.net *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*connections privileges. The DIDs authenticated above are local in scope. Therefore the DIDs state is only true in the connection in which the DID is authenticated.*
44	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Connect again to the A00000041000010001 card application. Ensure that a second connection does not inherit the first connections privileges. The DIDs authenticated above are local in scope. Therefore the DIDs state is only true in the connection in which the DID is authenticated.*
45	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Attempt to retrieve the A00000041000010001 card application DataSet list. This action is expected to fail as we have not yet authenticated the required DIDs in this connection. Ensure that, for local scope DIDs, the DIDs state is only true in the connection in which the DID is authenticated. The Internal and CHPIN DIDs were authenticated in the previous connection.*
45	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null*	*Return of previous SAL Proxy call: Attempt to*

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ID	Action	Arguments	Description
		result: null *returnCode:* *API_SECURITY_CONDITION_NOT_SATISFIED*	*retrieve the A00000041000010001 card application DataSet list. This action is expected to fail as we have not yet authenticated the required DIDs in this connection. Ensure that, for local scope DIDs, the DIDs state is only true in the connection in which the DID is authenticated. The Internal and CHPIN DIDs were authenticated in the previous connection.*
46	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *action: null*	*Disconnect from the second A00000041000010001 card application connection.*
46	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Disconnect from the second A00000041000010001 card application connection.*
47	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000020001* *exclusiveUse: false*	*Connect to the A00000041000020001 card application. The following set of actions shall test authentication of the A00000041000020001 application.*

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ID	Action	Arguments	Description
47	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 1 returnCode: API_OK*	*Return of previous SAL Proxy call: Connect to the A00000041000020001 card application. The following set of actions shall test authentication of the A00000041000020001 application.*
48	*didGet*	*DIDGetCall transactionIdentifier: null argument: connectionHandle: 1 didScope: LOCAL didName: AlphaExternalCert*	*Retrieve the A00000041000020001 AlphaExternalCert DID.*
48	*didGet*	*DIDGetReturn transactionIdentifier: null result: didStructure: name: AlphaExternalCert protocol: id: 1.0.24727.3.0.3 scope: LOCAL authenticated: false marker: qualifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the A00000041000020001 AlphaExternalCert DID.*
49	*dataSetList*	*DataSetListCall transactionIdentifier: null argument: connectionHandle: 1*	*Attempt to retrieve the A00000041000020001 card application DataSet list. This action is expected to fail as we have not yet authenticated the Internal and AlphaExternalCert DIDs in this connection.*
49	*dataSetList*	*DataSetListReturn transactionIdentifier: null result: null returnCode: API_SECURITY_CONDITION_NOT_SATISFI*	*Return of previous SAL Proxy call: Attempt to retrieve the A00000041000020001 card application*

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ID	Action	Arguments	Description
		ED	*DataSet list. This action is expected to fail as we have not yet authenticated the Internal and AlphaExternalCert DIDs in this connection.*
50	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: AlphaExternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the Alpha external DID.*
50	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the Alpha external DID.*
51	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Attempt to retrieve the A00000041000020001 card application DataSet list. This action is expected to fail as we have not yet authenticated the Internal DID. Ensure that the AND access rule operator requires both operands to be true. Ensure that the authenticated DIDs with the same name in a different card application and different connection do not affect the DIDs in this card application and connection.*
51	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result: null*	*Return of previous SAL Proxy call: Attempt to retrieve the*

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ID	Action	Arguments	Description
		returnCode: API_SECURITY_CONDITION_NOT_SATISFIED	*A00000041000020001 card application DataSet list. This action is expected to fail as we have not yet authenticated the Internal DID. Ensure that the AND access rule operator requires both operands to be true. Ensure that the authenticated DIDs with the same name in a different card application and different connection do not affect the DIDs in this card application and connection.*
52	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 1 didScope: LOCAL didName: InternalCert authenticationProtocolData: samConnectionHandle: null*	*Authenticate the InternalCert.*
52	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the InternalCert.*
53	*dataSetList*	*DataSetListCall transactionIdentifier: null argument: connectionHandle: 1*	*Retrieve the A00000041000020001 card application DataSet list. This action shall now succeed. Ensure that the AND and OR access rule expressions are tested.*
53	*dataSetList*	*DataSetListReturn transactionIdentifier: null result:*	*Return of previous SAL Proxy call: Retrieve the A00000041000020001*

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ID	Action	Arguments	Description
		dataSetNameList: *dataSetName:* *2-DS1* *2-DS2* *AccessLog* *returnCode: API_OK*	*card application DataSet list. This action shall now succeed. Ensure that the AND and OR access rule expressions are tested.*
54	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS1*	*Select the 2-DS1 data set.*
54	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Select the 2-DS1 data set.*
55	*dsiRead*	*DSIReadCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 2-DS1-DSI1*	*Retrieve the 2-DS1-DSI1 DSI contents. Ensure that a DSI can be read.*
55	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result:* *dsiContent:* *49443A2031323334353B20436C6173733A20433B20526573747269637469F6E733A204E6F6E653B20506F696E74733A203132* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the 2-DS1-DSI1 DSI contents. Ensure that a DSI can be read.*
56	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 2-DS1-DSI2* *dsiContent:* *49443A2033343536373B20436C6173733A20423B20526573747269637469F6E733A206D617820313220706572736F6E3B20506F696E733A203132*	*Attempt to create the 2-DS1-DSI2 DSI. This attempt shall fail due to a lack of create permission.*
56	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode:* *API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to create the 2-DS1-DSI2 DSI. This attempt shall fail due to a lack of create permission.*

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ID	Action	Arguments	Description
57	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: MangExternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the Management External DID. This is needed for the DSI write actions.*
57	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the Management External DID. This is needed for the DSI write actions.*
58	*dsiWrite*	*DSIWriteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 2-DS1-DSI1* *dsiContent:* *49443A2031323334353B20436C6173733A204* *33B20526573747269374696F6E733A204E6* *F6E653B20506F696E74733A2039*	*Update the 2-DS1-DSI1 DSI. Ensure that a DSI can be updated.*
58	*dsiWrite*	*DSIWriteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Update the 2-DS1-DSI1 DSI. Ensure that a DSI can be updated.*
59	*didGet*	*DIDGetCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: MangExternalCert*	*Retrieve the Management external DID. Ensure that the state is now set to true.*
59	*didGet*	*DIDGetReturn* *transactionIdentifier: null* *result:* *didStructure:* *name: MangExternalCert* *protocol:* *id: 1.0.24727.3.0.3* *scope: LOCAL*	*Return of previous SAL Proxy call: Retrieve the Management external DID. Ensure that the state is now set to true.*

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ID	Action	Arguments	Description
		authenticated: true *marker:* *qualifier: null* *returnCode: API_OK*	
60	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dsiName: 2-DS1-DSI2* *dsiContent:* *49443A2033343536373B20436C6173733A20423B20526573747269637469 6F6E733A206D6178203132207065726F6E3B20506F696E743A203132*	*Create the 2-DS1-DSI2 DSI. This attempt shall now succeed.*
60	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 2-DS1-DSI2 DSI. This attempt shall now succeed.*
61	*didUpdate*	*DIDUpdateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: AlphaExternalCert* *didUpdateData:* *marker: 4D6F646966696564* *qualifier: null*	*Attempt to update the Alpha external DID. This action is expected to fail on a simple assertion protocol.*
61	*didUpdate*	*DIDUpdateReturn* *transactionIdentifier: null* *returnCode:* *API_INAPPROPRIATE_PROTOCOL_FOR_ACTION*	*Return of previous SAL Proxy call: Attempt to update the Alpha external DID. This action is expected to fail on a simple assertion protocol.*
62	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *action: null*	*Post-condition: Disconnect from the A00000041000020001 application as local DIDs were authenticated during this connection.*
62	*cardApplication*	*CardApplicationDisconnectReturn* *transactionIdentifier: null*	*Return of previous SAL Proxy call: Post-*

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ID	Action	Arguments	Description
	Disconnect	*returnCode: API_OK*	*condition: Disconnect from the A00000041000020001 application as local DIDs were authenticated during this connection.*
63	*cardApplication Disconnect*	*CardApplicationDisconnectCall transactionIdentifier: null argument: connectionHandle: 0 action: null*	*Post-condition: Disconnect from the A00000041000010001 application as local DIDs were authenticated during this connection.*
63	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the A00000041000010001 application as local DIDs were authenticated during this connection.*
64	*cardApplication Connect*	*CardApplicationConnectCall transactionIdentifier: null argument: cardApplicationPath: pathSecurity: null channelHandle: protocolTerminationPoint: http://smartcard-host.net sessionIdentifier: null binding: null contextHandle: null ifdName: Blue IFD Reader SN2432A4 slotIndex: 1 cardApplication: A00000041000020001 exclusiveUse: false*	*Post-condition: Connect to the A00000041000020001 card application. The following set of actions shall test the post-conditions.*
64	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 0 returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Connect to the A00000041000020001 card application. The*

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ID	Action	Arguments	Description
			following set of actions shall test the post-conditions.
65	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: InternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Post-condition: Authenticate the Internal DID.*
65	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Authenticate the Internal DID.*
66	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: MangExternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Post-condition: Authenticate the Management external DID.*
66	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Authenticate the Management external DID.*
67	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *filter: null*	*Post-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the DID list contains the expected DIDs.*
67	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *CHPIN* *InternalCert*	*Return of previous SAL Proxy call: Post-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the DID list contains the*

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ID	Action	Arguments	Description
		BetaExternalCert *MangExternalCert* *AlphaExternalCert* *returnCode: API_OK*	*expected DIDs.*
68	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 2-DS1*	*Post-condition: Select the 2-DS1 data set.*
68	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Select the 2-DS1 data set.*
69	*dsiRead*	*DSIReadCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dsiName: 2-DS1-DSI1*	*Post-condition: Retrieve the 2-DS1-DSI1 contents. Ensure that the contents has been updated.*
69	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result:* *dsiContent:* *49443A203132333435 3B20436C6173733A204 33B20526573747269637469 6F6E733A204E6 F6E653B20506F696E74733A2039* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the 2-DS1-DSI1 contents. Ensure that the contents has been updated.*
70	*dsiRead*	*DSIReadCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dsiName: 2-DS1-DSI2*	*Post-condition: Retrieve the 2-DS1-DSI2 contents. Ensure that the contents is as expected.*
70	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result:* *dsiContent:* *49443A203334353637 3B20436C6173733A204 23B20526573747269637469 6F6E733A206D6 178203132207065727 36F6E3B20506F696E74 733A203132* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the 2-DS1-DSI2 contents. Ensure that the contents is as expected.*
71	*cardApplication*	*CardApplicationDisconnectCall* *transactionIdentifier: null*	*Post-condition: Disconnect from the*

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ID	Action	Arguments	Description
	Disconnect	*argument:* *connectionHandle: 0* *action: null*	*A00000041000020001 card application.*
71	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the A00000041000020001 card application.*
72	*terminate*	*TerminateCall* *transactionIdentifier: null*	*Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*
72	*terminate*	*TerminateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*

A.7 Data manipulation - global authentication

This scenario shall test global authentication functionality accross different card-applications.

Detailed test data for each CUT is defined in Annex B.7, Annex C.6 and Annex D.6

Table A.7 —SAL Sequence – Data manipulation - global authentication

ID	Action	Arguments	Description
1	*initialize*	*InitializeCall* *transactionIdentifier: null*	*Initialise the SAL Proxy.*
1	*initialize*	*InitializeReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Initialise the SAL Proxy.*
2	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net*	*Pre-condition: Connect to the A00000041000010001 card application. The following set of actions shall test the A00000041000010001 card application pre-*

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ID	Action	Arguments	Description
		sessionIdentifier: null *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*conditions.*
2	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Connect to the A00000041000010001 card application. The following set of actions shall test the A00000041000010001 card application pre-conditions.*
3	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: InternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
3	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
4	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: MangExternalCert* *authenticationProtocolData:*	*Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with management permissions to view all*

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ID	Action	Arguments	Description
		samConnectionHandle: null	*of the smart card, except the AccessLog.*
4	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with management permissions to view all of the smart card, except the AccessLog.*
5	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 0 didScope: LOCAL didName: CHPIN authenticationProtocolData: samConnectionHandle: null*	*Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
5	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
6	*aclList*	*ACLListCall transactionIdentifier: null argument: connectionHandle: 0 targetType: CARD-APPLICATION targetName: cardApplicationName: A00000041000010001*	*Pre-condition: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL is as expected.*
6	*aclList*	*ACLListReturn transactionIdentifier: null result: targetACL: accessRule: cardApplicationService: Authorization action: authorizationServiceAction: ACLList securityCondition:*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL is as expected.*

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ID	Action	Arguments	Description
		always: true *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction: ExecuteAction* *securityCondition:* *never: false* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationDelete* *securityCondition:* *always: true* *cardApplicationService: Connection*	

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ID	Action	Arguments	Description
		action: *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceList* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceLoad* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceCreate* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDelete* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDescribe* *securityCondition:* *never: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL*	

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ID	Action	Arguments	Description
		didState: true *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *and:*	

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ID	Action	Arguments	Description
		securityCondition: *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
7	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *filter: null*	*Pre-condition: Retrieve the A00000041000010001 card application DID list. Ensure that the DID list contains the expected DIDs.*

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ID	Action	Arguments	Description
7	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *CHPIN* *InternalCert* *BetaExternalCert* *MangExternalCert* *AlphaExternalCert* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000010001 card application DID list. Ensure that the DID list contains the expected DIDs.*
8	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the A00000041000010001 card application DataSet list. Ensure that the DataSet list contains the expected DataSets.*
8	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *1-DS1* *1-DS2* *1-DS3* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000010001 card application DataSet list. Ensure that the DataSet list contains the expected DataSets.*
9	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS1*	*Select the 1-DS1 DataSet.*
9	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Select the 1-DS1 DataSet.*
10	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Retrieve the 1-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
10	*dsiList*	*DSIListReturn* *transactionIdentifier: null*	*Return of previous SAL Proxy call: Retrieve the*

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ID	Action	Arguments	Description
		result: *dsiNameList:* *dsiName:* *1-DS1-DSI1* *returnCode: API_OK*	*1-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
11	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS2*	*Pre-condition: Select the 1-DS2 DataSet.*
11	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 1-DS2 DataSet.*
12	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Retrieve the 1-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
12	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *1-DS2-DSI1* *1-DS2-DSI2* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the 1-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
13	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS3*	*Pre-condition: Select the 1-DS3 DataSet.*
13	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 1-DS3 DataSet.*
14	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Retrieve the 1-DS3 DSI list. Ensure that the DSI list contains the expected DSIs.*
14	*dsiList*	*DSIListReturn* *transactionIdentifier: null*	*Return of previous SAL Proxy call: Retrieve the*

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ID	Action	Arguments	Description
		result: *dsiNameList:* *dsiName:* *1-DS3-DSI1* *1-DS3-DSI2* *1-DS3-DSI3* *returnCode: API_OK*	*1-DS3 DSI list. Ensure that the DSI list contains the expected DSIs.*
15	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: AccessLog*	*Pre-condition: Select the AccessLog DataSet.*
15	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the AccessLog DataSet.*
16	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
16	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
17	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000020001* *exclusiveUse: false*	*Pre-condition: Connect to the A00000041000020001 card application. The following set of actions shall test the A00000041000020001 card application pre-conditions.*

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ID	Action	Arguments	Description
17	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 1 returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Connect to the A00000041000020001 card application. The following set of actions shall test the A00000041000020001 card application pre-conditions.*
18	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 1 didScope: LOCAL didName: InternalCert authenticationProtocolData: samConnectionHandle: null*	*Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
18	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
19	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 1 didScope: LOCAL didName: MangExternalCert authenticationProtocolData: samConnectionHandle: null*	*Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with management permissions to view all of the smart card, except the AccessLog.*
19	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the MangExternalCert DID. This shall*

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ID	Action	Arguments	Description
			provide us with management permissions to view all of the smart card, except the AccessLog.
20	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: CHPIN* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
20	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
21	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001*	*Pre-condition: Retrieve the A00000041000010001 card application access rules. Ensure that the ACL contains the expected access rules.*
21	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000010001 card application access rules. Ensure that the ACL contains the expected access rules.*

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ID	Action	Arguments	Description
		connectionServiceAction: *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *and:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert*	

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
22	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *filter: null*	*Pre-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the DID list contains the expected DIDs.*
22	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *CHPIN* *InternalCert* *BetaExternalCert* *MangExternalCert* *AlphaExternalCert* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the DID list contains the expected DIDs.*

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ID	Action	Arguments	Description
23	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the A00000041000020001 card application DataSet list. Ensure that the DataSet list contains the expected DataSets.*
23	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *2-DS1* *2-DS2* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000020001 card application DataSet list. Ensure that the DataSet list contains the expected DataSets.*
24	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS1*	*Pre-condition: Select the 2-DS1 data set.*
24	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 2-DS1 data set.*
25	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
25	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *2-DS1-DSI1* *2-DS1-DSI2* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
26	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS2*	*Pre-condition: Select the 2-DS2 DataSet.*

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ID	Action	Arguments	Description
26	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 2-DS2 DataSet.*
27	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
27	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *2-DS2-DSI1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
28	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: AccessLog*	*Pre-condition: Select the AccessLog DataSet.*
28	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the AccessLog DataSet.*
29	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
29	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
30	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Disconnect from the A00000041000020001 card application as local DIDs were*

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ID	Action	Arguments	Description
		action: null	*authenticated during this connection.*
30	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Disconnect from the A00000041000020001 card application as local DIDs were authenticated during this connection.*
31	*cardApplication Disconnect*	*CardApplicationDisconnectCall transactionIdentifier: null argument: connectionHandle: 0 action: null*	*Pre-condition: Disconnect from the A00000041000010001 card application as local DIDs were authenticated during this connection.*
31	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Disconnect from the A00000041000010001 card application as local DIDs were authenticated during this connection.*
32	*cardApplication Connect*	*CardApplicationConnectCall transactionIdentifier: null argument: cardApplicationPath: pathSecurity: null channelHandle: protocolTerminationPoint: http://smartcard-host.net sessionIdentifier: null binding: null contextHandle: null ifdName: Blue IFD Reader SN2432A4 slotIndex: 1 cardApplication: A00000041000020001 exclusiveUse: false*	*Connect to the A00000041000020001 application.*

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ID	Action	Arguments	Description
32	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 0 returnCode: API_OK*	*Return of previous SAL Proxy call: Connect to the A00000041000020001 application.*
33	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 0 didScope: LOCAL didName: InternalCert authenticationProtocolData: samConnectionHandle: null*	*Authenticate the InternalCert DID.*
33	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the InternalCert DID.*
34	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 0 didScope: LOCAL didName: CHPIN authenticationProtocolData: samConnectionHandle: null*	*Authenticate as the card holder (CHPIN).*
34	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate as the card holder (CHPIN).*
35	*dataSetSelect*	*DataSetSelectCall transactionIdentifier: null argument: connectionHandle: 0 dataSetName: AccessLog*	*Select the Access Log data set.*
35	*dataSetSelect*	*DataSetSelectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Select the Access Log data set.*
36	*dsiRead*	*DSIReadCall transactionIdentifier: null argument:*	*Attempt to read the Access Log DSI. This attempt shall fail as the*

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ID	Action	Arguments	Description
		connectionHandle: 0 *dsiName: AccessLog*	*global AccessLog DID has not yet been authenticated.*
36	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to read the Access Log DSI. This attempt shall fail as the global AccessLog DID has not yet been authenticated.*
37	*cardApplicationConnect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: E82881C11702* *exclusiveUse: false*	*Connect to the Alpha card application.*
37	*cardApplicationConnect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Connect to the Alpha card application.*
38	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: GLOBAL* *didName: AccessLog* *authenticationProtocolData:* *samConnectionHandle: null*	*Attempt to authenticate the Access Log DID. Fail as it first required authentication of the global InternalCert and CHPIN DIDs.*
38	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_SECURITY_CONDITION_NOT_SATISFI*	*Return of previous SAL Proxy call: Attempt to authenticate the Access Log DID. Fail as it first required*

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ID	Action	Arguments	Description
		ED	*authentication of the global InternalCert and CHPIN DIDs.*
39	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 1 didScope: LOCAL didName: InternalCert authenticationProtocolData: samConnectionHandle: null*	*Attempt to authenticate the local Internal DID. This request shall fail as the request attempts to authenticate in the local scope. DIDs in the Alpha card application can only be authenticated in the global scope.*
39	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: null returnCode: API_INCORRECT_PARAMETER*	*Return of previous SAL Proxy call: Attempt to authenticate the local Internal DID. This request shall fail as the request attempts to authenticate in the local scope. DIDs in the Alpha card application can only be authenticated in the global scope.*
40	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 1 didScope: GLOBAL didName: InternalCert authenticationProtocolData: samConnectionHandle: null*	*Authenticate the global Internal DID. This request shall now succeed as the scope is global.*
40	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the global Internal DID. This request shall now succeed as the scope is global.*
41	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument:*	*Authenticate as the global card holder (CHPIN) DID.*

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ID	Action	Arguments	Description
		connectionHandle: 1 *didScope: GLOBAL* *didName: CHPIN* *authenticationProtocolData:* *samConnectionHandle: null*	
41	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate as the global card holder (CHPIN) DID.*
42	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: GLOBAL* *didName: AccessLog* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the Access Log DID. This action shall now succeed.*
42	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the Access Log DID. This action shall now succeed.*
43	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000020001* *exclusiveUse: false*	*Connect again to the A00000041000020001 application.*
43	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 2* *returnCode: API_OK*	*Return of previous SAL Proxy call: Connect again to the A00000041000020001 application.*

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ID	Action	Arguments	Description
44	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 2* *didScope: LOCAL* *didName: InternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate the InternalCert. Ensure that the same local DID in the same card application has different states for different connections. The disconnect below shall test this.*
44	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the InternalCert. Ensure that the same local DID in the same card application has different states for different connections. The disconnect below shall test this.*
45	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 2* *didScope: LOCAL* *didName: CHPIN* *authenticationProtocolData:* *samConnectionHandle: null*	*Authenticate as the card holder (CHPIN).*
45	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate as the card holder (CHPIN).*
46	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 2* *dataSetName: AccessLog*	*Select the Access Log data set.*
46	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Select the Access Log data set.*
47	*dsiRead*	*DSIReadCall* *transactionIdentifier: null*	*Read the Access Log DSI. The*

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ID	Action	Arguments	Description
		argument: *connectionHandle: 2* *dsiName: AccessLog*	*authentication of the global AccessLog DID in another connection shall enable read access. Ensure that new connections after a global DID authentication can see the global DID state.*
47	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result:* *dsiContent:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Read the Access Log DSI. The authentication of the global AccessLog DID in another connection shall enable read access. Ensure that new connections after a global DID authentication can see the global DID state.*
48	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 2* *action: null*	*Disconnect from the A00000041000020001 card application. Ensure that this disconnect only sets the DID states to false for this connection. Also see the AccessLog DSI read below.*
48	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Disconnect from the A00000041000020001 card application. Ensure that this disconnect only sets the DID states to false for this connection. Also see the AccessLog DSI read below.*
49	*dsiRead*	*DSIReadCall* *transactionIdentifier: null* *argument:*	*Read the Access Log DSI on the Card Holder connection.*

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ID	Action	Arguments	Description
		connectionHandle: 0 *dsiName: AccessLog*	*The authentication of the global AccessLog DID in another connection shall enable read access. Ensure that connections before a global DID authentication can see the global DID state. Ensure that, when there are two connections to the same card application, that a disconnect to one connection does not affect the DID states of the other connection.*
49	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result:* *dsiContent:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Read the Access Log DSI on the Card Holder connection. The authentication of the global AccessLog DID in another connection shall enable read access. Ensure that connections before a global DID authentication can see the global DID state. Ensure that, when there are two connections to the same card application, that a disconnect to one connection does not affect the DID states of the other connection.*
50	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *action: null*	*Disconnect from the Alpha card application. This shall set the AccessLog log state to false.*

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ID	Action	Arguments	Description
50	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Disconnect from the Alpha card application. This shall set the AccessLog log state to false.*
51	*dsiRead*	*DSIReadCall transactionIdentifier: null argument: connectionHandle: 0 dsiName: AccessLog*	*Attempt to read the Access Log DSI. This attempt shall fail as the global AccessLog DID is no longer authenticated. Ensure that the state of global DIDs are set to false when the connection in which they were authenticate are disconnected.*
51	*dsiRead*	*DSIReadReturn transactionIdentifier: null result: null returnCode: API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to read the Access Log DSI. This attempt shall fail as the global AccessLog DID is no longer authenticated. Ensure that the state of global DIDs are set to false when the connection in which they were authenticate are disconnected.*
52	*cardApplication Disconnect*	*CardApplicationDisconnectCall transactionIdentifier: null argument: connectionHandle: 0 action: null*	*Disconnect from the A00000041000010001 card application as local DIDs were authenticated during this connection.*
52	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Disconnect from the A00000041000010001 card application as local DIDs were authenticated during this connection.*

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ID	Action	Arguments	Description
53	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: E82881C11702* *exclusiveUse: false*	*Post-condition: Connect to the Alpha card application.*
53	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Connect to the Alpha card application.*
54	*didGet*	*DIDGetCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: GLOBAL* *didName: AccessLog*	*Post-condition: Retrieve the AccessLog DID. Ensure the DID state is false.*
54	*didGet*	*DIDGetReturn* *transactionIdentifier: null* *result:* *didStructure:* *name: AccessLog* *protocol:* *id: 1.0.24727.3.0.3* *scope: GLOBAL* *authenticated: false* *marker:* *qualifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Retrieve the AccessLog DID. Ensure the DID state is false.*
55	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	*Post-condition: Disconnect from the Alpha card application.*

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ID	Action	Arguments	Description
55	*cardApplication Disconnect*	*CardApplicationDisconnectReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the Alpha card application.*
56	*terminate*	*TerminateCall transactionIdentifier: null*	*Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*
56	*terminate*	*TerminateReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*

A.8 Application management - data structure destruction

This scenario shall test the destruction of a card-applications as well as data structures and their associated security features. This scenario shall return the smart card to its original state.

Detailed test data for each CUT is defined in Annex B.8, Annex C.8 and Annex D.7

Table A.8 —SAL Sequence – Application management - data structure destruction

ID	Action	Arguments	Description
1	*initialize*	*InitializeCall transactionIdentifier: null*	*Initialise the SAL Proxy.*
1	*initialize*	*InitializeReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Initialise the SAL Proxy.*
2	*cardApplication Connect*	*CardApplicationConnectCall transactionIdentifier: null argument: cardApplicationPath: pathSecurity: null channelHandle: protocolTerminationPoint: http://smartcard-host.net sessionIdentifier: null binding: null contextHandle: null ifdName: Blue IFD Reader SN2432A4*	*Pre-condition: Connect to the A00000041000010001 card application. The following set of actions shall test the A00000041000010001 card application pre-conditions.*

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ID	Action	Arguments	Description
		slotIndex: 1 *cardApplication: A00000041000010001* *exclusiveUse: false*	
2	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 0* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Connect to the A00000041000010001 card application. The following set of actions shall test the A00000041000010001 card application pre-conditions.*
3	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: InternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
3	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
4	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: MangExternalCert* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with management permissions to view all of the smart card, except the AccessLog.*

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ID	Action	Arguments	Description
4	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with management permissions to view all of the smart card, except the AccessLog.*
5	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: CHPIN* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
5	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
6	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001*	*Pre-condition: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL is as expected.*
6	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000020001 card application access rules. Ensure that the ACL is as expected.*

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ID	Action	Arguments	Description
		differentialIdentityServiceAction: DIDList *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction: ExecuteAction* *securityCondition:* *never: false* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationCreate* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationDelete* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession*	

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ID	Action	Arguments	Description
		securityCondition: *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceList* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceLoad* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceCreate* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDelete* *securityCondition:* *never: false* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationServiceDescribe* *securityCondition:* *never: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:*	

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ID	Action	Arguments	Description
		namedDataServiceAction: DataSetDelete *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert*	

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
7	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *filter: null*	*Pre-condition: Retrieve the A00000041000010001 card application DID list. Ensure that the DID list contains the expected DIDs.*
7	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000010001*

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ID	Action	Arguments	Description
		didName: *CHPIN* *InternalCert* *BetaExternalCert* *MangExternalCert* *AlphaExternalCert* *returnCode: API_OK*	*card application DID list. Ensure that the DID list contains the expected DIDs.*
8	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the A00000041000010001 card application DataSet list. Ensure that the DataSet list contains the expected DataSets.*
8	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *1-DS1* *1-DS2* *1-DS3* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000010001 card application DataSet list. Ensure that the DataSet list contains the expected DataSets.*
9	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS1*	*Pre-condition: Select the 1-DS1 DataSet.*
9	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 1-DS1 DataSet.*
10	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the 1-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
10	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 1-DS1 DSI list. Ensure*

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ID	Action	Arguments	Description
		dsiName: *1-DS1-DSI1* *returnCode: API_OK*	*that the DSI list contains the expected DSIs.*
11	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS2*	*Pre-condition: Select the 1-DS2 DataSet.*
11	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 1-DS2 DataSet.*
12	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the 1-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
12	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *1-DS2-DSI1* *1-DS2-DSI2* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 1-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
13	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS3*	*Pre-condition: Select the 1-DS3 DataSet.*
13	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 1-DS3 DataSet.*
14	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the 1-DS3 DSI list. Ensure that the DSI list contains the expected DSIs.*
14	*dsiList*	*DSIListReturn* *transactionIdentifier: null*	*Return of previous SAL Proxy call: Pre-*

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ID	Action	Arguments	Description
		result: *dsiNameList:* *dsiName:* *1-DS3-DSI1* *1-DS3-DSI2* *1-DS3-DSI3* *returnCode: API_OK*	*condition: Retrieve the 1-DS3 DSI list. Ensure that the DSI list contains the expected DSIs.*
15	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: AccessLog*	*Pre-condition: Select the AccessLog DataSet.*
15	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the AccessLog DataSet.*
16	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
16	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
17	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000020001* *exclusiveUse: false*	*Pre-condition: Connect to the A00000041000020001 card application. The following set of actions shall test the A00000041000020001 card application pre-conditions.*

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ID	Action	Arguments	Description
17	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 1 returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Connect to the A00000041000020001 card application. The following set of actions shall test the A00000041000020001 card application pre-conditions.*
18	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 1 didScope: LOCAL didName: InternalCert authenticationProtocolData: samConnectionHandle: null*	*Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
18	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the InternalCert DID. This, combined with MangExternalCert, shall provide us with management permissions to view all of the smartcard.*
19	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 1 didScope: LOCAL didName: MangExternalCert authenticationProtocolData: samConnectionHandle: null*	*Pre-condition: Authenticate the MangExternalCert DID. This shall provide us with management permissions to view all of the smart card, except the AccessLog.*
19	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the MangExternalCert DID. This shall*

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ID	Action	Arguments	Description
			provide us with management permissions to view all of the smart card, except the AccessLog.
20	*didAuthenticate*	*DIDAuthenticateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didScope: LOCAL* *didName: CHPIN* *authenticationProtocolData:* *samConnectionHandle: null*	*Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
20	*didAuthenticate*	*DIDAuthenticateReturn* *transactionIdentifier: null* *result:* *authenticationProtocolData:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Authenticate the CHPIN DID. This shall provide us with permission to view the AccessLog.*
21	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000020001*	*Pre-condition: Retrieve the A00000041000010001 card application access rules. Ensure that the ACL contains the expected access rules.*
21	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000010001 card application access rules. Ensure that the ACL contains the expected access rules.*

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ID	Action	Arguments	Description
		connectionServiceAction: *CardApplicationConnect* *securityCondition:* *always: true* *cardApplicationService: CardApplication* *action:* *cardApplicationServiceAction:* *CardApplicationList* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationDisconnect* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationEndSession* *securityCondition:* *always: true* *cardApplicationService: Connection* *action:* *connectionServiceAction:* *CardApplicationStartSession* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetDelete* *securityCondition:* *and:* *securityCondition:*	

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ID	Action	Arguments	Description
		didAuthentication: *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert*	

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
22	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *filter: null*	*Pre-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the DID list contains the expected DIDs.*
22	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *CHPIN* *InternalCert* *BetaExternalCert* *MangExternalCert* *AlphaExternalCert* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000020001 card application DID list. Ensure that the DID list contains the expected DIDs.*

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ID	Action	Arguments	Description
23	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the A00000041000020001 card application DataSet list. Ensure that the DataSet list contains the expected DataSets.*
23	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *2-DS1* *2-DS2* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000020001 card application DataSet list. Ensure that the DataSet list contains the expected DataSets.*
24	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: 2-DS1*	*Pre-condition: Select the 2-DS1 DataSet.*
24	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 2-DS1 DataSet.*
25	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
25	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *2-DS1-DSI1* *2-DS1-DSI2* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the DSI list contains the expected DSIs.*
26	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Select the 2-DS2 DataSet.*

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ID	Action	Arguments	Description
		dataSetName: 2-DS2	
26	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the 2-DS2 DataSet.*
27	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
27	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *2-DS2-DSI1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the DSI list contains the expected DSIs.*
28	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *dataSetName: AccessLog*	*Pre-condition: Select the AccessLog DataSet.*
28	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Select the AccessLog DataSet.*
29	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1*	*Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
29	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *AccessLog* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Retrieve the AccessLog DSI list. Ensure that the DSI list contains the expected DSI.*
30	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:*	*Pre-condition: Disconnect from the A00000041000020001*

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ID	Action	Arguments	Description
		connectionHandle: 1 *action: null*	*card application as local DIDs were authenticated during this connection.*
30	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Disconnect from the A00000041000020001 card application as local DIDs were authenticated during this connection.*
31	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *action: null*	*Pre-condition: Disconnect from the A00000041000010001 card application as local DIDs were authenticated during this connection.*
31	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Pre-condition: Disconnect from the A00000041000010001 card application as local DIDs were authenticated during this connection.*
32	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: A00000041000010001* *exclusiveUse: false*	*Connect to the A00000041000010001 card application. The following set of actions shall delete the A00000041000010001 application.*

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ID	Action	Arguments	Description
32	*cardApplication Connect*	*CardApplicationConnectReturn transactionIdentifier: null result: connectionHandle: 0 returnCode: API_OK*	*Return of previous SAL Proxy call: Connect to the A00000041000010001 card application. The following set of actions shall delete the A00000041000010001 application.*
33	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 0 didScope: LOCAL didName: MangExternalCert authenticationProtocolData: samConnectionHandle: null*	*Authenticate the Management external DID. Only management can delete objects.*
33	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the Management external DID. Only management can delete objects.*
34	*didAuthenticate*	*DIDAuthenticateCall transactionIdentifier: null argument: connectionHandle: 0 didScope: LOCAL didName: InternalCert authenticationProtocolData: samConnectionHandle: null*	*Authenticate the Interanl DID.*
34	*didAuthenticate*	*DIDAuthenticateReturn transactionIdentifier: null result: authenticationProtocolData: returnCode: API_OK*	*Return of previous SAL Proxy call: Authenticate the Interanl DID.*
35	*dataSetSelect*	*DataSetSelectCall transactionIdentifier: null argument: connectionHandle: 0 dataSetName: 1-DS1*	*Select the 1-DS1 DataSet.*

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ID	Action	Arguments	Description
35	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Select the 1-DS1 DataSet.*
36	*dsiDelete*	*DSIDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dsiName: 1-DS1-DSI1*	*Delete the 1-DS1 DSI. Ensure that a DSI can be deleted.*
36	*dsiDelete*	*DSIDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the 1-DS1 DSI. Ensure that a DSI can be deleted.*
37	*dsiRead*	*DSIReadCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dsiName: 1-DS1-DSI1*	*Attempt to read the 1-DS1-DSI1 DSI. Ensure that deleted DSI can no longer be read.*
37	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_NAMED_ENTITY_NOT_FOUND*	*Return of previous SAL Proxy call: Attempt to read the 1-DS1-DSI1 DSI. Ensure that deleted DSI can no longer be read.*
38	*dsiDelete*	*DSIDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dsiName: 1-DS1-DSI1*	*Attempt to delete the 1-DS1-DSI1 DSI again. Ensure that a deleted DSI can not again be deleted.*
38	*dsiDelete*	*DSIDeleteReturn* *transactionIdentifier: null* *returnCode:* *API_NAMED_ENTITY_NOT_FOUND*	*Return of previous SAL Proxy call: Attempt to delete the 1-DS1-DSI1 DSI again. Ensure that a deleted DSI can not again be deleted.*
39	*dsiCreate*	*DSICreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dsiName: 1-DS1-DSI1* *dsiContent:* *4E616D653A20426F62204D634C65616E3B20444F423A20313937382D31302D3033*	*Create the 1-DS1-DSI1 DSI. Ensure that a deleted DSI can be recreated with different data.*

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ID	Action	Arguments	Description
39	*dsiCreate*	*DSICreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS1-DSI1 DSI. Ensure that a deleted DSI can be recreated with different data.*
40	*dsiRead*	*DSIReadCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dsiName: 1-DS1-DSI1*	*Retrieve the 1-DS1-DSI1 contents. Ensure that the recreated DSI has the correct data.*
40	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result:* *dsiContent:* *4E616D653A20426F62204D634C65616E3B20444F423A20313937382D31302D3033* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the 1-DS1-DSI1 contents. Ensure that the recreated DSI has the correct data.*
41	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Retrive the 1-DS1 DSI List. Ensure that the recreated DSI is in the DSI list.*
41	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *1-DS1-DSI1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrive the 1-DS1 DSI List. Ensure that the recreated DSI is in the DSI list.*
42	*dsiDelete*	*DSIDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dsiName: 1-DS1-DSI1*	*Delete the 1-DS1-DSI1 DSI again. Ensure that a recreated DSI can be deleted.*
42	*dsiDelete*	*DSIDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the 1-DS1-DSI1 DSI again. Ensure that a recreated DSI can be deleted.*
43	*dsiRead*	*DSIReadCall* *transactionIdentifier: null* *argument:*	*Attempt to read the 1-DS1-DSI1 DSI. Ensure that the deleted DSI*

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ID	Action	Arguments	Description
		connectionHandle: 0 *dsiName: 1-DS1-DSI1*	*can no longer be read.*
43	*dsiRead*	*DSIReadReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_NAMED_ENTITY_NOT_FOUND*	*Return of previous SAL Proxy call: Attempt to read the 1-DS1-DSI1 DSI. Ensure that the deleted DSI can no longer be read.*
44	*dataSetDelete*	*DataSetDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS1*	*Delete the 1-DS1 DataSet. Ensure that an empty DataSet can be deleted.*
44	*dataSetDelete*	*DataSetDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the 1-DS1 DataSet. Ensure that an empty DataSet can be deleted.*
45	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS1*	*Attempt to select the 1-DS1 DataSet. Ensure that a deleted DataSet can no longer be selected.*
45	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode:* *API_NAMED_ENTITY_NOT_FOUND*	*Return of previous SAL Proxy call: Attempt to select the 1-DS1 DataSet. Ensure that a deleted DataSet can no longer be selected.*
46	*dataSetDelete*	*DataSetDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS1*	*Attempt to delete the 1-DS1 DataSet. Ensure that the DataSet has been deleted.*
46	*dataSetDelete*	*DataSetDeleteReturn* *transactionIdentifier: null* *returnCode:* *API_NAMED_ENTITY_NOT_FOUND*	*Return of previous SAL Proxy call: Attempt to delete the 1-DS1 DataSet. Ensure that the DataSet has been deleted.*

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ID	Action	Arguments	Description
47	*dataSetDelete*	*DataSetDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS2*	*Delete the 1-DS2 DataSet. Ensure that a DataSet that contains multiple DSIs can be deleted.*
47	*dataSetDelete*	*DataSetDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the 1-DS2 DataSet. Ensure that a DataSet that contains multiple DSIs can be deleted.*
48	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: DATA-SET* *targetName:* *datasetName: 1-DS2*	*Attempt to retrieve the 1-DS2 DataSet access rules. Ensure that the access rules for the deleted DataSet are not longer accessible.*
48	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result: null* *returnCode:* *API_NAMED_ENTITY_NOT_FOUND*	*Return of previous SAL Proxy call: Attempt to retrieve the 1-DS2 DataSet access rules. Ensure that the access rules for the deleted DataSet are not longer accessible.*
49	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS2*	*Attempt to select the 1-DS2 DataSet. Ensure that a deleted DataSet can not longer be selected.*
49	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode:* *API_NAMED_ENTITY_NOT_FOUND*	*Return of previous SAL Proxy call: Attempt to select the 1-DS2 DataSet. Ensure that a deleted DataSet can not longer be selected.*
50	*dataSetCreate*	*DataSetCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS2* *dataSetACL:*	*Create the 1-DS2 DataSet with a minimal access rules. Ensure that a deleted DataSet can be recreated. Recreate the 1-DS2*

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ID	Action	Arguments	Description
		accessRule: *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetSelect* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL*	*DataSet.*

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ID	Action	Arguments	Description
		didState: true *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true*	
50	*dataSetCreate*	*DataSetCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the 1-DS2 DataSet with a minimal access rules. Ensure that a deleted*

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ID	Action	Arguments	Description
			DataSet can be recreated. Recreate the 1-DS2 DataSet.
51	*aclList*	*ACLListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: DATA-SET* *targetName:* *datasetName: 1-DS2*	*Retrieve the 1-DS2 DataSet access rules. Ensure that the access rules for the recreated DataSet are the same as those specified in the recreation.*
51	*aclList*	*ACLListReturn* *transactionIdentifier: null* *result:* *targetACL:* *accessRule:* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DSIList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert*	*Return of previous SAL Proxy call: Retrieve the 1-DS2 DataSet access rules. Ensure that the access rules for the recreated DataSet are the same as those specified in the recreation.*

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetList* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *cardApplicationService: NamedData* *action:* *namedDataServiceAction: DataSetSelect* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *or:* *securityCondition:* *didAuthentication:* *didName: CHPIN* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: MangExternalCert*	

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ID	Action	Arguments	Description
		didScope: LOCAL *didState: true* *didAuthentication:* *didName: AlphaExternalCert* *didScope: LOCAL* *didState: false* *didAuthentication:* *didName: BetaExternalCert* *didScope: LOCAL* *didState: false* *returnCode: API_OK*	
52	*dataSetSelect*	*DataSetSelectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS2*	*Selecte the 1-DS2 DataSet. Ensure that the recreated DataSet can be selected.*
52	*dataSetSelect*	*DataSetSelectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Selecte the 1-DS2 DataSet. Ensure that the recreated DataSet can be selected.*
53	*dsiList*	*DSIListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Retrieve the 1-DS2 DSI list. Ensure that the contents of the recreated DataSet is empty.*
53	*dsiList*	*DSIListReturn* *transactionIdentifier: null* *result:* *dsiNameList:* *dsiName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the 1-DS2 DSI list. Ensure that the contents of the recreated DataSet is empty.*
54	*dataSetDelete*	*DataSetDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS2*	*Delete the 1-DS2 DataSet again. Ensure that a recreated DataSet can be deleted.*
54	*dataSetDelete*	*DataSetDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the 1-DS2 DataSet again. Ensure that a recreated DataSet can be deleted.*

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ID	Action	Arguments	Description
55	*dataSetDelete*	*DataSetDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: 1-DS3*	*Delete the 1-DS3 DataSet.*
55	*dataSetDelete*	*DataSetDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the 1-DS3 DataSet.*
56	*dataSetDelete*	*DataSetDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *dataSetName: AccessLog*	*Delete the Access Log DataSet.*
56	*dataSetDelete*	*DataSetDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the Access Log DataSet.*
57	*dataSetList*	*DataSetListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0*	*Retrieve the A00000041000010001 application DataSet list. Ensure that there are now no DataSets in the A00000041000010001 application.*
57	*dataSetList*	*DataSetListReturn* *transactionIdentifier: null* *result:* *dataSetNameList:* *dataSetName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the A00000041000010001 application DataSet list. Ensure that there are now no DataSets in the A00000041000010001 application.*
58	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify*	*Modify A00000041000010001's ACLModify access rule. Enable ACLModify execution after the internal certificate DID has been deleted.*

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ID	Action	Arguments	Description
		securityCondition: *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	
58	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify A00000041000010001's ACLModify access rule. Enable ACLModify execution after the internal certificate DID has been deleted.*
59	*didGet*	*DIDGetCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: InternalCert*	*Retrieve the Internal DID. Ensure that the DID state is true. When this DID is recreated the state shall be false.*
59	*didGet*	*DIDGetReturn* *transactionIdentifier: null* *result:* *didStructure:* *name: InternalCert* *protocol:* *id: 1.0.24727.3.0.3* *scope: LOCAL* *authenticated: true* *marker:* *qualifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the Internal DID. Ensure that the DID state is true. When this DID is recreated the state shall be false.*
60	*didDelete*	*DIDDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: InternalCert*	*Delete the Internal DID. Ensure that that a DID, that is reference in ACLs, can be deleted.*
60	*didDelete*	*DIDDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the Internal DID. Ensure that that a DID, that is reference in ACLs, can be deleted.*

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ID	Action	Arguments	Description
61	*didDelete*	*DIDDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: CHPIN*	*Attempt to delete the CHPIN DID. Ensure that an access rule pointing to a non-existent DID fails. The DIDDelete action requires InternalCert authentication. However InternalCert has been deleted.*
61	*didDelete*	*DIDDeleteReturn* *transactionIdentifier: null* *returnCode:* *API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to delete the CHPIN DID. Ensure that an access rule pointing to a non-existent DID fails. The DIDDelete action requires InternalCert authentication. However InternalCert has been deleted.*
62	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName:* *DifferentialIdentity* *actionName:* *differentialIdentityServiceAction: DIDDelete* *securityCondition:* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Modify A00000041000010001's DIDDelete access rule. Remove the deleted Internal DID from the DIDDelete access rule. This shall enable the deletion of DIDs.*
62	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify A00000041000010001's DIDDelete access rule. Remove the deleted Internal DID from the DIDDelete access rule. This shall*

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ID	Action	Arguments	Description
			enable the deletion of DIDs.
63	*didDelete*	*DIDDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: CHPIN*	*Delete the CHPIN DID. This shall now succeed.*
63	*didDelete*	*DIDDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the CHPIN DID. This shall now succeed.*
64	*didDelete*	*DIDDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: AlphaExternalCert*	*Delete the AlphaExternalCert DID.*
64	*didDelete*	*DIDDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the AlphaExternalCert DID.*
65	*didDelete*	*DIDDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: BetaExternalCert*	*Delete the BetaExternalCert DID.*
65	*didDelete*	*DIDDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the BetaExternalCert DID.*
66	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true*	*Modify A00000041000010001's ACLModify access rule. Remove all restrictions on the ACLModify action.*

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ID	Action	Arguments	Description
66	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify A00000041000010001's ACLModify access rule. Remove all restrictions on the ACLModify action.*
67	*didDelete*	*DIDDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: MangExternalCert*	*Delete the MangExternalCert DID.*
67	*didDelete*	*DIDDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the MangExternalCert DID.*
68	*didList*	*DIDListCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *filter: null*	*Retrieve the A00000041000010001 card application DID list. Ensure that there are no DIDs in the A00000041000010001 application.*
68	*didList*	*DIDListReturn* *transactionIdentifier: null* *result:* *didNameList:* *didName:* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the A00000041000010001 card application DID list. Ensure that there are no DIDs in the A00000041000010001 application.*
69	*didDelete*	*DIDDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: MangExternalCert*	*Attempt to delete the MangExternalCert DID again. We do not have permission to delete a non-existent DID as the DIDDelete access rule requires MangExternalCert authentication. The MangExternalCert DID has been deleted.*

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ID	Action	Arguments	Description
69	*didDelete*	*DIDDeleteReturn transactionIdentifier: null returnCode: API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to delete the MangExternalCert DID again. We do not have permission to delete a non-existent DID as the DIDDelete access rule requires MangExternalCert authentication. The MangExternalCert DID has been deleted.*
70	*aclModify*	*ACLModifyCall transactionIdentifier: null argument: connectionHandle: 0 targetType: CARD-APPLICATION targetName: cardApplicationName: A00000041000010001 cardApplicationServiceName: DifferentialIdentity actionName: differentialIdentityServiceAction: DIDDelete securityCondition: always: true*	*Modify A00000041000010001's DIDDelete access rule. Remove all restrictions on the DIDDelete action. As all of the DIDs have been deleted, we can not authenticate against any DIDs.*
70	*aclModify*	*ACLModifyReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Modify A00000041000010001's DIDDelete access rule. Remove all restrictions on the DIDDelete action. As all of the DIDs have been deleted, we can not authenticate against any DIDs.*
71	*didDelete*	*DIDDeleteCall transactionIdentifier: null argument: connectionHandle: 0 didName: MangExternalCert*	*Attempt to delete the MangExternalCert DID again. Ensure that a deleted DID can not be deleted.*
71	*didDelete*	*DIDDeleteReturn transactionIdentifier: null*	*Return of previous SAL Proxy call: Attempt to*

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ID	Action	Arguments	Description
		returnCode: *API_NAMED_ENTITY_NOT_FOUND*	*delete the MangExternalCert DID again. Ensure that a deleted DID can not be deleted.*
72	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: CARD-APPLICATION* *targetName:* *cardApplicationName: A00000041000010001* *cardApplicationServiceName:* *DifferentialIdentity* *actionName:* *differentialIdentityServiceAction: DIDCreate* *securityCondition:* *always: true*	*Modify A00000041000010001's DIDCreate access rule. Remove all restrictions on the DIDCreate action.*
72	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Modify A00000041000010001's DIDCreate access rule. Remove all restrictions on the DIDCreate action.*
73	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: InternalCert* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:*	*Create the Internal DID again. Ensure that a deleted DID can be recreated.*

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ID	Action	Arguments	Description
		always: true *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true*	

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ID	Action	Arguments	Description
73	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the Internal DID again. Ensure that a deleted DID can be recreated.*
74	*didGet*	*DIDGetCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didScope: LOCAL* *didName: InternalCert*	*Retrieve the Internal DID. Ensure the DID state is false.*
74	*didGet*	*DIDGetReturn* *transactionIdentifier: null* *result:* *didStructure:* *name: InternalCert* *protocol:* *id: 1.0.24727.3.0.3* *scope: LOCAL* *authenticated: false* *marker:* *qualifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the Internal DID. Ensure the DID state is false.*
75	*didCreate*	*DIDCreateCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *didName: MangExternalCert* *authProtocolOID:* *id: 1.0.24727.3.0.3* *didUpdateData:* *marker:* *qualifier: null* *didACL:* *accessRule:* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDGet* *securityCondition:* *always: true* *cardApplicationService: DifferentialIdentity* *action:* *differentialIdentityServiceAction: DIDUpdate* *securityCondition:* *always: true*	*Create the Management external DID. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. One of these may not have yet been created.*

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ID	Action	Arguments	Description
		cardApplicationService: DifferentialIdentity *action:* *differentialIdentityServiceAction: DIDAuthenticate* *securityCondition:* *always: true* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Encipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Decipher* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: GetRandom* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: Sign* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifySignature* *securityCondition:* *never: false* *cardApplicationService: Cryptographic* *action:* *cryptographicServiceAction: VerifyCertificate* *securityCondition:* *never: false* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLList* *securityCondition:* *always: true* *cardApplicationService: Authorization* *action:* *authorizationServiceAction: ACLModify* *securityCondition:* *always: true*	

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ID	Action	Arguments	Description
75	*didCreate*	*DIDCreateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Create the Management external DID. First create the DIDs then restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. One of these may not have yet been created.*
76	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: InternalCert* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*Set the ACLModify access rule to first require authentication of the internal and external management certificate DIDs.*
76	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Set the ACLModify access rule to first require authentication of the internal and external management certificate DIDs.*
77	*aclModify*	*ACLModifyCall* *transactionIdentifier: null* *argument:*	*Attempt to modify Internal DID's ACLModify access*

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ID	Action	Arguments	Description
		connectionHandle: 0 *targetType: DIFFERENTIAL-IDENTITY* *targetName:* *didName: InternalCert* *cardApplicationServiceName: Authorization* *actionName:* *authorizationServiceAction: ACLModify* *securityCondition:* *and:* *securityCondition:* *didAuthentication:* *didName: InternalCert* *didScope: LOCAL* *didState: true* *didAuthentication:* *didName: MangExternalCert* *didScope: LOCAL* *didState: true*	*rule. This attempt shall fail as the DID state has been cleared. Ensure that the state of a recreated DID is false.*
77	*aclModify*	*ACLModifyReturn* *transactionIdentifier: null* *returnCode:* *API_SECURITY_CONDITION_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to modify Internal DID's ACLModify access rule. This attempt shall fail as the DID state has been cleared. Ensure that the state of a recreated DID is false.*
78	*cardApplicationDelete*	*CardApplicationDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 0* *cardApplicationName: A00000041000010001*	*Attempt to delete the A00000041000010001 card application. Ensure that a card application can only be deleted from the alpha card application.*
78	*cardApplicationDelete*	*CardApplicationDeleteReturn* *transactionIdentifier: null* *returnCode:* *API_PREREQUISITE_NOT_SATISFIED*	*Return of previous SAL Proxy call: Attempt to delete the A00000041000010001 card application. Ensure that a card application can only be deleted from the alpha card application.*

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ID	Action	Arguments	Description
79	*cardApplication Connect*	*CardApplicationConnectCall* *transactionIdentifier: null* *argument:* *cardApplicationPath:* *pathSecurity: null* *channelHandle:* *protocolTerminationPoint: http://smartcard-host.net* *sessionIdentifier: null* *binding: null* *contextHandle: null* *ifdName: Blue IFD Reader SN2432A4* *slotIndex: 1* *cardApplication: E82881C11702* *exclusiveUse: false*	*Connect to the Alpha card application. The following set of actions shall delete the Alpha application.*
79	*cardApplication Connect*	*CardApplicationConnectReturn* *transactionIdentifier: null* *result:* *connectionHandle: 1* *returnCode: API_OK*	*Return of previous SAL Proxy call: Connect to the Alpha card application. The following set of actions shall delete the Alpha application.*
80	*cardApplication Delete*	*CardApplicationDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *cardApplicationName: A00000041000010001*	*Delete the A00000041000010001 card application. Ensure that a card application with an existing connection can be deleted.*
80	*cardApplication Delete*	*CardApplicationDeleteReturn* *transactionIdentifier: null* *returnCode:* *API_WARNING_CONNECTION_DISCONNECTED*	*Return of previous SAL Proxy call: Delete the A00000041000010001 card application. Ensure that a card application with an existing connection can be deleted.*
81	*cardApplication Delete*	*CardApplicationDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *cardApplicationName: A00000041000020001*	*Delete the A00000041000020001 card application. Ensure that a card application that contains multiple DataSets can be deleted.*

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ID	Action	Arguments	Description
81	*cardApplication Delete*	*CardApplicationDeleteReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the A00000041000020001 card application. Ensure that a card application that contains multiple DataSets can be deleted.*
82	*aclList*	*ACLListCall transactionIdentifier: null argument: connectionHandle: 1 targetType: CARD-APPLICATION targetName: cardApplicationName: A00000041000010001*	*Attempt to retrieve the A00000041000020001 card application access rules. Ensure that the access rules for the deleted card application can not be retrieved.*
82	*aclList*	*ACLListReturn transactionIdentifier: null result: null returnCode: API_NAMED_ENTITY_NOT_FOUND*	*Return of previous SAL Proxy call: Attempt to retrieve the A00000041000020001 card application access rules. Ensure that the access rules for the deleted card application can not be retrieved.*
83	*cardApplication List*	*CardApplicationListCall transactionIdentifier: null argument: connectionHandle: 0*	*Attempt to list the card applications using a connection to a deleted card application. Ensure the request shall fail as the connection was disconnected when the card application was deleted.*
83	*cardApplication List*	*CardApplicationListReturn transactionIdentifier: null result: null returnCode: API_INCORRECT_PARAMETER*	*Return of previous SAL Proxy call: Attempt to list the card applications using a connection to a deleted card application. Ensure the request*

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ID	Action	Arguments	Description
			shall fail as the connection was disconnected when the card application was deleted.
84	*cardApplication List*	*CardApplicationListCall transactionIdentifier: null argument: connectionHandle: 1*	*Retrieve the list of card applications.*
84	*cardApplication List*	*CardApplicationListReturn transactionIdentifier: null result: cardApplicationNameList: E82881C11702 returnCode: API_OK*	*Return of previous SAL Proxy call: Retrieve the list of card applications.*
85	*didDelete*	*DIDDeleteCall transactionIdentifier: null argument: connectionHandle: 1 didName: AccessLog*	*Delete the global AccessLog DID. Ensure that globl DIDs can be deleted.*
85	*didDelete*	*DIDDeleteReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the global AccessLog DID. Ensure that globl DIDs can be deleted.*
86	*didDelete*	*DIDDeleteCall transactionIdentifier: null argument: connectionHandle: 1 didName: CHPIN*	*Delete the global CHPIN DID.*
86	*didDelete*	*DIDDeleteReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the global CHPIN DID.*
87	*didDelete*	*DIDDeleteCall transactionIdentifier: null argument: connectionHandle: 1 didName: InternalCert*	*Delete the global InternalCert DID.*
87	*didDelete*	*DIDDeleteReturn transactionIdentifier: null returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the global InternalCert DID.*

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ID	Action	Arguments	Description
88	*didDelete*	*DIDDeleteCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *didName: MangExternalCert*	*Delete the global MangExternalCert DID.*
88	*didDelete*	*DIDDeleteReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Delete the global MangExternalCert DID.*
89	*cardApplication Disconnect*	*CardApplicationDisconnectCall* *transactionIdentifier: null* *argument:* *connectionHandle: 1* *action: null*	*Post-condition: Disconnect from the Alpha card application.*
89	*cardApplication Disconnect*	*CardApplicationDisconnectReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Post-condition: Disconnect from the Alpha card application.*
90	*terminate*	*TerminateCall* *transactionIdentifier: null*	*Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*
90	*terminate*	*TerminateReturn* *transactionIdentifier: null* *returnCode: API_OK*	*Return of previous SAL Proxy call: Terminate the SAL Proxy. This shall automatically invoke ReleaseContext on the IFDProxy.*

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Annex B
(informative)

Envelope APDU implementation ICC-Resident stack expected component test inputs and outputs

All ASN.1 TLV encoded data enforces Destinguished Encoding Rules (DER).

The transactionIdetifier is OPTIONAL and if it does not exist it may not be returned. If an empty transactionIdentifier is returned then it shall be encoded as “05 00” i.e. NULL.

The default pathsecurity shall be TLS 1.0

B.1 Application management - alpha card-application data structure construction

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements the ENVELOPE APDU) as described in Annex A.1.1, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.1.

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```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
     <invAspect>
       <refId>1</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>CALL</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
     </invAspect>
     <invAspect>
       <refId>2</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>RETURN</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
```


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```
  <encodedData
type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F52088 2064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the Alpha card application. This
shall automatically invoke Open on the TC
     layer and then EstablishContext on the IFDProxy as connectivity to the
smartcard host has not yet been established.
     Then it shall invoke connect on the IFDProxy. In turn connect shall be
invoked on the IFD layer on the client side.
     After connect has completed, transmit on the IFDProxy shall be invoked
to transmit the CardApplicationConnect APDU to
     the Alpha card application. If the sessionIdentifier field in the
ChannelHandle is null then the SAL Proxy shall
     create a new TC connection. If the sessionIdentifier field is not null
then the TC connection must exist at this
     point. In this case sessionIdentifier is null. The smartcard path shall
be replaced when comparing the results to
     those from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E7441707053696465D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465D54432D53657373696F6E49442D328206415049 5F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A20202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A20202020202020203C5365
```

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```
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The trahsmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>
```

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```
      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370 6F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370 6F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787 4526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
```

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```
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2F5726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61233E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6574748318426C756520494644205265616465722053E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820199A1820195A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818201383C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030303444374638463537343941313437413034324131314238303139363837
343734373033413246324637333644363137323734363336313732363432443638364637333 7
```

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```
343245364536353734383331383432364337353635323034393436343432303532363536313
634363537323230353334453332333433333332343133343834303130313835303645383238
31433131373032383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820148A182013C808201383C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A73636865D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303034443746
384635373439413134374130343241313142383031393638373437343730334132463273 3
364436137323734363336313732363432443638364637333734324536453635373438333138
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333323431333438343031303138353036453832383831433131373032383130313030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004D7F8F5749A147A042A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E6574831842 6C7565204946442052656164657220534E32343332
41348401018506E82881C1170281010000</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830313030383230363431
353034393546346346442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the Alpha card application. This shall
     automatically invoke Open on the TC layer and then EstablishContext on
the IFDProxy as connectivity to the smartcard
     host has not yet been established. Then it shall invoke connect on the
IFDProxy. In turn connect shall be invoked on
     the IFD layer on the client side. After connect has completed, transmit
on the IFDProxy shall be invoked to transmit
     the CardApplicationConnect APDU to the Alpha card application. If the
sessionIdentifier field in the ChannelHandle is
     null then the SAL Proxy shall create a new TC connection. If the
sessionIdentifier field is not null then the TC
     connection must exist at this point. In this case sessionIdentifier is
null. The smartcard path shall be replaced
     when comparing the results to those from an ISO247272
stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application access
rules. Ensure that all of the Alpha card
      application access rules are set to Always. For the purpose of this
scenario test the Alpha card application needs to
      be open.</description>
  <encodedData
type="xs:hexBinary">7F901D21A11F800100811043415244 2D4150504C49434154494F4EA2
088206E82881C11702</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000257F901D21A11F800100811043415244 2D4150504C494341544
94F4EA2088206E82881C117020000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820148A1820144A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181E83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323537463930314432314131314631383030313030383131303433343532
343432443431353035303443343934333431353434393446344541323038383232303645383238
383143313137303230303030 3C2F496E707574415044553E0A3C2F6E73323A5472616E736D69
743E</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81F6A181EB8081E83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032353746393031
443231413131463830303130303831313034333431353234343244343135303530344336934
333431353434393446344541323038383230364538323838314331313730323030303C2F49
6E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedD
ata>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000257F901D21A11F8001008110434152442D4150504C494341544
94F4EA2088206E82881C117020000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```


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```
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000257F901D21A11F800100811043415244D4150504C494341
54494F4EA2088206E82881C1170200</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F43617264417 0706C69636174696F6EA10F820D4578656375746541
6100</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">6374696F6EA2038101FF3028801444696666572656E7469616C4964
656E74697479A10B85094449444437265617465A2038101FF3028801444696666572656E7469
616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F6E6E6563
74696F6EA11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D80
0F436172644170706C69636174696F6EA11582134361726441707 06C69636174696F6E4C6973
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B811943617264
6100</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">4170706C69636174696F6E456E6453657373696F6EA2038101FF302F
800F436172644170706C69636174696F6EA11782154361726441707 06C69636174696F6E4372
65617465A2038101FF302F800F436172644170706C69636174696F6EA1178215436172644170
706C69636174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B
43617264417070 6C69636174696F6E537461727453657373696F6EA2038101FF3034800F4361
726441707 06C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963
654C697374A2038101FF3034800F436172644170706C69636174696F6EA11C821A4361726441
6100</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
```

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```
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">70706C69636174696F6E536572766963654C6F6164A2038101FF3036
800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E5365
72766963654372656174 65A2038101FF3036800F436172644170706C69636174696F6EA11E82
1C436172644170706C69636174696F6E536572766963654656C657465A2038101FF3038800F
436172644170706C69636174696F6EA120821E436172644170706C69636174696F6E53657276
69636544657363726965A2038101FF82064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A10D830B
446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109860741
434C4C697374A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C657465
A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A20381
01FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C697374A2
038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541637469
6F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944
437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85
0944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441
70706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174
696F6EA11582154361726441 70706C69636174696F6E4C697374A2038101FF302E800A436F6E
6E656374696F6EA11B81194361726441 70706C69636174696F6E446973636F6E6E656374A203
8101FF302E800A436F6E6E656374696F6EA11B81194361726441 70706C69636174696F6E456E
6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782154361
72644170706C69636174696F6E437265617465A2038101FF302F800F436172644170706C6963
6174696F6EA1178215436172644170706C69636174696F6E44656C657465A2038101FF303080
0A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274536573
73696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170
706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170706C69
636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F6164A203
8101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174
696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963617469
6F6EA11E821C436172644170706C69636174696F6E536572766963654656C657465A2038101
FF3038800F436172644170706C69636174696F6EA120821E436172644170706C69636174696F
6E536572766963654465736372696265A2038101FF82064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182087EA182087AA03E801C536D617274636172645369646
54432D53657373696F6E49442D328100821C536D617274636172645369646452D54432D536573
73696F6E49442D32818208363C6E73323A5472616E736D697452657370696E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031453832303343364131383230334241413038
32303342363330314638303039344536313644363536343434363137343631413130443833
42343436313734363135333635373434433639373337344132303338313031464633303146
30304434313735373436383646373236393741363137343039364636454131303938363037
31343334433443363937333734413230333831303146463330323138303039344536313644
35363434343631373436314131304638333044343436313734363135333635373434333732
35363137343635413230333831303146463330323138303039344536313644363536343436
31373436314131304638333044343436313734363135333635373434343635364336353436
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31303146463330323638303134343436393636363635373236353645373436393631364334
39363436353645373436393734373941313039383530373434343934343443363937333734
32303338313031464633303237383030463433363137323634343137303730364336393633
31373436393646364541313046383330443435373836353633373537343635343136333734
39364636454132303338313031464633303238383031343434363936363636363537323635
45373436393631364334393634363536453734363937343739413130423835303934343439
34343337323635363137343635413230333831303146463330323838303134343436393636
36363537323635364537343639363136433439363436353645373436393734373941313042
35303934343439343434343635364336353734363541323033383130314646333032423830
41343336463645364556353633734363936463645413131383831313634333631373236343
31373037303643363936333631373436393646364541333364636453645363536333734413230
33383130314646333032443830304634333631373236343431373037303643363936333631
34363936463645413131353832313334333631373236343431373037303643363936333631
34363936463645344336393733373441323033383130314646333032453830304134333646
45364536353633373436393646364541313142383131393433363137323634343137303730
43363936333631373436393646364534343639373336333646364536453653633633373436
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42383131393433363137323634343137303730364336393633363137343639364636453435
45363435333635373337333639364636454132303338313031464633303246383030463433
31373236343431373037303643363936333631373436393646364541313137383231354333
31373236343431373037303643363936333631373436393646364534333732363536313734
35413230333831303146463330323463830304634333631373236343431373037303643363
33363137343639364636454131313738323135343336313732363434313730373036433639
33363137343639364636454343635364336353734363541323033383130314646333033038
30304134333646364536453635363337343639364636454131314438313142343336313732
34343137303730364336393633363137343639364636453533373436313732373435333635
33373336393646364541323033383130314646333033343830304634333631373236343431
30373036433639363336313734363936463645413131433832314134333631373236343431
30373036433639363336313734363936463645353336353732373636393633363534433639
33373441323033383130314646333033343830304634333631373236343431373037303643
39363336313734363936463645413131433832314134333631373236343431373037303643
39363336313734363936463645353336353732373636393633363534433646363136344132
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333831303146463330333638303046343336313732363434313730373036433639363336313734383231433433363137323634343137303730364336393633363137
343639364636454131314538323143343336313732363434313730373036433639363336313734383231433433363137323634343137303730364336393633363137
343639364636453533363537323736363936333635343337323635363137343635413230333831303146463330333638303046343336313732363434313730373036433639363336313734363934363634541313145383231433433363137323634343137303730364336393633363137343639
393646363454131314538323143343336313732363434313730373036433639363336313734363934363634541313145383231433433363137323634343137303730364336393633363137343639
393646363453533363537323736363936333635343436353643363537343635413230333831303146463330333838303046343336313732363434313730373036433639363336313734363936463645413132303832314534333631373236343431373037303643363936333631373436393646364541313230383231453433363137323634343137303730364336393633363137343639
463645353336353732373636393633363534343635373336333732363936323635413230333831303146463833230363431353034393546344634423930303033C2F4F75747075744150445533E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous write.</description>
  <encodedData type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The payload is an XML message. The XML is the
      marshalled response object from the previous IFD response.</description>
  <encodedData type="xs:hexBinary">7F9F2D820846A182083A808208363C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C4F757470757441504455 3E3746393031453832303343364131383230334241413038323033423633303146383030393445363136443635363434343631373436314131304438333042343436313734363135333635373434433639373337343134132303338313031464633303231383030393445363136443635363434343631373436314131304638333044343436313734363135373434333732363536313734363541323033383130314646333032313830303934453631364436353634343436313734363141313046383330443436313734363135333635373434333732363536313734363541323033383130314646333032313830303934453631364436353634343436313734363141313046383330443436313734363135333635373434363541323033383130314646333032313830443436313735373436
```


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383646373236393741363137343639364636454131304238363039343134333443344436463634363936363739413230333831303146463330323638303134343436393636363639413230333831303146463330323638303134343436393636363639413230333831303146463330323638303134343436393636363639413230333831303146463330323738303046343336313732363434313730373036433639363336313734363936463645413130463832304434353738363536333731343639364636454131323033383130314646333032383830313434343639363636363635373236353645373436393631364334393634363536454537343639373437394131303938353037343434393434343639343434333732363536313734363541323033383130314646333032313834343639363636363635373236353645373436393631364334393634363536454537343639373437394131303938353037343434313034238353039343434393434343337323635363137343635412320333831303146463330323838303134343436393636363636363537323635364537343639363136433439363436353645373436393734373941313042383530393434343934343434363536433635373436354132303338313031464633303238303041343336463645364536353633373436393646364541313138383130313146463330323838303134343436393636363636363537323635364537343639363136433439363436353645373436393734373941313042383530393434343934343434333732363536313734363541323033383130314646333033383830304634333631373436393734373941313042383530393434343934343434363536433635373436354132303338313031464633303238303041343336463645364536353633373436393646364541313138383130313146463330323838303134343436393636363636363537323635364537343639363136433439363436353645
```

```
      <Result>IFD_OK</Result>

  <OutputAPDU>7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A10D830B
446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109860741
434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574437265
617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C657465
A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A20381
01FF3026801444696666665726 56E7469616C4964656E74697479A10985074449444C697374A2
038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541637469
6F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944
437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85
0944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441
70706C69636174696F6E436F6E6E656374A2038101FF302D800F4361726441707 06C69636174
696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A436F6E
6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E656374A203
8101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E456E
6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782154361
726441707 06C69636174696F6E437265617465A2038101FF302F800F436172644170706C6963
6174696F6EA1178215436172644170706C69636174696F6E44656C657465A2038101FF303080
0A436F6E6E656374696F6EA11D811B4361726441707 06C69636174696F6E5374617274536573
73696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170
706C69636174696F6E536572766963654C697374A2038101FF3034800F4361726441707 06C69
636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F6164A203
8101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174
696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963617469
6F6EA11E821C436172644170706C69636174696F6E536572766963654465 6C657465A2038101
FF3038800F436172644170706C69636174696F6EA120821E436172644170706C69636174696F
6E536572766963654465736372696265A2038101FF82064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application access rules.
     Ensure that all of the Alpha card application access rules are set to
Always. For the purpose of this scenario test
     the Alpha card application needs to be open.</description>
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666665726 56E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541
6374696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509
444944437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479
A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F4361726441707 06C69
636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F4361726441707 06C69636174696F6EA11782
```

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1543617264417070 6C69636174696F6E437265617465A2038101FF302F800F43617264417070
6C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963654 4656C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E436172644170706C696361
74696F6E536572766963654465736372696265A2038101FF82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application DID list
of global DIDs. Ensure that the DID list is empty.</description>
  <encodedData type="xs:hexBinary">7F901105A1038000100</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
```

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```
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030303937463930313130354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E303043323030303030303030303393746393031
313035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90120CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031323043413130324130303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031323043413130324130
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>4</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90120CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application DID list of global DIDs. Ensure
     that the DID list is empty.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application data set
list. Ensure that the data set list is empty.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504553E30304332
30303030303030303039374638463731303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
```

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```
313035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
```

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```
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4944455F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384637323043413130324130303038323036343135 30
343935463446344239303030 3C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455453E374638463732304341313032413
303038323036343135303439354634463442393030303C2F4F757470757441504455453E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application data set list.
      Ensure that the data set list is empty.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the internal certificate DID. The internal certificate
DID is used to verify that this is a valid
      smartcard. First create the DIDs then restrict the DID modification
permissions. The modification access rules refer
      to the Internal and External DIDs. One of these may not have yet been
created. This DID is actually a Simple
```

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```
     Assertion DID, not an Client Application Asymmetric Internal
Authentication DID. This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F90138201C4A18201C0800100810C496E7465726E616C4365727482
072881C117030003A3028000A482019E301C800D43727970746F67726170686963A106840453
69676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A203
8101FF3020800D43727970746F67726170686963A10A840844656369706865726A20382010030
20800D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726
6E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F
67726170686963A111840F566572696679536967 6E6174757265A203820100302880144469666
666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101FF302980
0D43727970746F67726170686963A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F444944417574686
6E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CA7F90138201C4A18201C0800100810C496E7465726E616C436
5727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A10
684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697
374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A2038
201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100302
1800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D4
3727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
66572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727
970746F67726170686963A111840F566572696679536967 6E6174757265A203820100302880144
444696666657 2656E7469616C4964656E74697479A10B85094449445570646174 65A2038101F
F3029800D43727970746F67726170686963A113841156657269667943657274696669636174 6
5A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444944417
57468656E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820493A182048FA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818204323C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303031434137463930313338323031433441313832303143303830303130303 8
313043343936453734363537323645363136433433363537323734383230373238383143313 1
373033303033413330323830303041343832303139453330314338303044343337323739373
303734364636373732363137303638363936334131303638343034353336393637364541323 0
333832303130303330314638303044343137353734363836463732363937413631373436393 6
463645413130393836303734313433344334433639373337344132303338313031464633303 2
303830304434333732373937303734364636373732363137303638363936334131304138343 0
383434363536333639373036383635373241323033383230313030333032303830304434333 7
323739373037343646363737323631373036383639363341313041383430383435364536333 6
393730363836353732413230333832303130303330323138303044343137353734363836463 7
323639374136313734363936463645413130423836303934313433344034436463634363936
363739413230333831303146463330323138303044343337323739373037343646363737323 6
313730363836393633413130423834303934373635373435323631364536343646364644413 0
333832303130303330323538303134343436393636363635323631364536343646364644413 6
433439363436353645373436393734373941313038383530363434343934343437363537344 1
323033383130314646333032373830304434333732373937303734364636373732363137303 6
383639363341313131383430463536363537323639363637393533363936373645363137343 7
353732363541323033383230313030333032383830313434343639363636363653732363536
453734363936313643343936343635364537343639373437394131304238353039343434393 4
343535373036343631373436354132303338313031464633303239383030443433337323739 3
303734364636373732363137303638363936334131313338343131353636353732363936363 7
393433363537323734363936363639363331373436354132303338323031303033303245 38
303134343436393636363636353732363536453734363936313643343936343635364537343 6
393734373941313131383530463434343934343431373537343638363536453734363936333 6
313734363541323033383130314646303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
```


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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820442A1820436808204323C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303143413746
393031333832303143344413138323031433038303031303038313043343936453734363537732
364536313643343336353732373438323037323838314331313730333030303034133303238300
303041343832303139453330314338303044343337323739373037343646363737323631373000
363836393633413130363834303435333639363736454132303338323031303030303146383000
304434313735373436383646373236393741363137343639364636454131303038363037343100
343334433443363937333734413230333831303146463330323038303044343337323739373000
373436463637373236313730363836393633413130413834303834343635333639373036380
363537324132303338323031303033303230383030443433373237393730373436463637373200
363137303638363936334131304138343038343536453633363937303638363537324132303300
383230313030333032313830304434313735373436383646373230393741363137343639364600
364541313042383630393431343334433444364636343639363739413230333831303146460
333032313830304434333732373937303734364636373732363137303638363936334131304200
383430393437363537343532363136453634364636444132033383230313030333032353830300
313434343639363636363635373236353645373436393631364334393634363536453734363900
373437394131303838353036343434393434343736353734413230333831303146463330323700
383030443433373237393730373436463637373236313730363836393633413131313138343046
353636353732363936367393533363936373645363137343735373236354132303338323031300
303033032383830313434343639363636363653732363536453734363936313643343936340
363536453734363937343739413130423835303934343439343435353730363436313734363500
413230333831303146463330323938303044343337323739373037343646363737323631373000
363836393633413131313338343131353636353732363936367399343336353732373436393636
363936333631373436354132303338323031303033303245383031343434363936363636363500
373236353645373436393631364334393634363536453734363937343739413131313138353046
343434393434343137353734363836353645373436393633363137343635413230333831303100
4646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CA7F90138201C4A18201C0800100810C496E7465726E616C436
5727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A10
684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697
374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A2038
```

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201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100302
1800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D4
3727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
66572656E7469616C4964656E74697479A10885064449444476574A2038101FF3027800D43727
970746F67726170686963A111840F566572696679536967 6E6174757265A2038201003028801
4446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101F
F3029800D43727970746F67726170686963A113841156657269667943657274696669636174 6
5A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444944417
57468656E746963617465A2038101FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F90138201C4A18201C0800100810C496E7465726E616C
4365727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963
A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
697374A2038101FF3020800D4372797074 6F67726170686963A10A840844656369706865 72A2
038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF302180
0D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469
66666572</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000CB656E7469616C4964656E74697479A10885064449444765
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74A2038101FF3027800D43727970746F6772617068696 3A111840F566572696679536967 6E6174757265A203820100302880144469666665726 56E7469616C4964656E74697479A10B850944494455706461746 5A2038101FF3029800D43727970746F6772617068696 3A113841156657269667943657274696666963617465A203820100302E8014446966666572656E7469616C4964656E74697479A111850F44494441757468656E746963617465A2038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The payload is an XML message. The XML is the
     marshalled response object from the previous IFD response.</description>
  <encodedData type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369 6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>

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  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172742642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D536573736 96F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546346344393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the internal
certificate DID. The internal certificate DID is
     used to verify that this is a valid smartcard. First create the DIDs
then restrict the DID modification permissions.
     The modification access rules refer to the Internal and External DIDs.
One of these may not have yet been created.
     This DID is actually a Simple Assertion DID, not an Client Application
Asymmetric Internal Authentication DID. This
     simplifies the test case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the management external certificate DID. The
management external certificate DID is used to
     provide an external party with full privileges. First create the DIDs
then restrict the DID modification permissions.
     The modification access rules refer to the Internal and External DIDs.
This DID is actually a Simple Assertion DID,
     not an Client Application External Authenticate with Certificates DID.
This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F90138201C8A18201C480010081104D616E6745787465726E616C43
65727482072881C11703000381028000A482019E301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D
43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
666572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D4372
7970746F67726170686963A111840F5665726966795369676E6174757265A203820100302880
144469666666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
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     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CE7F90138201C8A18201C480010081104D616E6745787465726
E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686
572A2038201003020800D43727970746F67726170686963A10A8408456E6369706572A2038
201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3
021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025801
4446966666572656E7469616C4964656E74697479A10885064449444765A2038101FF30278
00D43727970746F67726170686963A111840F566572696679536967 6E6174757265A20382010
0302880144469666666572656E7469616C4964656E74697479A10B85094449445570646174 65A
2038101FF3029800D43727970746F67726170686963A113841156672696679436572746966 6
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
44944417574686 56E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182049BA1820497A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182043A3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303031434537463930313338323031433841313832303143343830303130303038
313130344436313645363734353738373436353732364536313643343336353732373438323 0
373238383143313137303330303033413330323830303041343832303139453330314338303 0
443433373237393730373436466363737323631373036383639363341313036383430343533 6
393637364541323033383230313030333031463830304434313735373436383646373236393 7
413631373436393646364541313039383630373431343334433443336393733373441323033 8
313031466433303230383030443433373237393730373436466363737323631373036383639 6
334131304138343038343436353633363937303638363537324132303338323031303033303 2
303830304434333732373937303734364636373732363137303638363936334131304138343 0
383435364536333639373036383635373241323033383230313030333032313830304434313 7
353734363836463732363937413631373436393646364541313042383630393431343334433 4
443646363436393636373941323033383130314646333032313830304434333732373937303 7
343646363737323631373036383639363341313042383430393437363537343532363136453 6
343646364441323033383230313030333032353830313434343639363636363636353732363 6
453734363936313643343936343635364537343639373437394131303838353036343434393 4
343437363537344132303338313031464633303237383030443433337323739373037343646 6
373732363137303638363936334131313138343046353636363537323639363637393533363 6
373645363137343735373236354132303338323031303033303238383031343434363936363 6
363635373236353645373436393631364334393634363536453734363937343739413130423 8
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353039343434393434353537303634363137343635413230333831303146463330323938303044343337323739373037343646363637373236313730363836393633413131313338343131353636353732363936363739343336353732373436393636363936333631373436354132303333383130314646303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82044AA182043E8082043A3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303143453746
393031383832303143384131383230314334383030313030383131303444363136453637343
373837343635373236453631364334333635373237343832303732383831433131373033303
303341333032383030304134383230313945333031433830304434333732373937303734364
363737323631373036383639363341313036383430343533363936373645413230333832303
303033303146383030443431373537343638364637323639374136313734363936463645413
303938363037343134333443344336393733373441323033383130314646333032303830344
343337323739373037343646363737323631373036383639363341313041383430383435364536336393730
373436463637373236313730363836393633411310413834303834353645363336393730363
363537324132303338323031303033303231383030443431373537343638364637323639374
136313734363936463645413130423836303934313433344433444364636343639363637394132
303338313031464633302313830304434333732373937303734364636373732363137303638
363936334131304238343039343736353734353236313645363436463644413230333832303
303033303235383031343434363936363636363537323635364537343639363136433439363634
```


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```
3635364537343639373437394131303838353036343434393434343736353734413230333831
3031464633303237383030443433373237393730373436463637373236313730363836393633
4131313138343046353636353732363936363739353336393637364536313734373537323635
4132303338323031303033303238383031343434363936363636363537323635364537343639
3631364334393634363536453734363937343739413130423835303934343439343435353730
3634363137343635413230333831303146463330323938303044343337323739373037343646
3637373236313730363836393633413131333834313135363635373236393636373934333635
3732373436393636363936333631373436354132303338323031303033303245383031343434
3639363636363635373236353645373436393631364334393634363536453734363937343739
4131313138353046343434393434343137353734363836353645373436393633363137343635
4132303338313031464630303030 3C2F496E707574415044553E0A3C2F6E73323A5472616E73
6D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CE7F90138201C8A18201C480010081104D616E6745787465726
E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261706
86963A10684045369676EA2038201003 01F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F6772617068696 3A10A84084465636970686
572A2038201003020800D43727970746F6772617068696 3A10A8408456E636970686572A2038
201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3
021800D43727970746F6772617068696 3A10B840947657452616E646F6DA2038201003025801
4446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF30278
00D437279707 46F6772617068696 3A111840F566572696679536967 6E6174757265A20382010
030288014446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A
2038101FF3029800D43727970746F6772617068696 3A113841156657269667943657274696 66
963617465A2038201003 02E80144469666666572656E7469616C4964656E74697479A111850F4
44944417574686 56E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F90138201C8A18201C480010081104D616E6745787465
```


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```
726E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261
70686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607
41434C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970
686572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2
038201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101
FF3021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025
80144469</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000CF66666572656E7469616C4964656E74697479A108850644
4944476574A2038101FF3027800D43727970746F67726170686963A111840F56657269667953
69676E6174757265A2038201003028801444696666665726 56E7469616C4964656E74697479A1
0B85094449445570646174657A2038101FF3029800D43727970746F67726170686963A1138411
566572696679436572746966963617465A203820100302E80144469666666572656E7469616C
4964656E74697479A111850F44494441757468656E746963617465A2038101FF00</encodedD
ata>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 53E3746393031343038383230363431353034393546344634423930
30303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
```

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```
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F9014088206415 0495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the management
external certificate DID. The management
     external certificate DID is used to provide an external party with full
privileges. First create the DIDs then
     restrict the DID modification permissions. The modification access
rules refer to the Internal and External DIDs.
     This DID is actually a Simple Assertion DID, not an Client Application
External Authenticate with Certificates DID.
     This simplifies the test case.</description>
  <encodedData type="xs:hexBinary">7F9014088206415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the internal certificate
DID. Set the DIDUpdate access rule to first
      require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8186A1818380010081154449464664552454E5449414C2D4944
454E54495459A20E810C496E7465726E616C436572748314446966666572656E7469616C4964
656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616C436572
74A10281008201FFA01980104D616E6745787465726E616C43657274A1028100820100</enco
dedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008B7F901F8186A1818380010081154449464664552454E5449414
C2D4944454E54495459A20E810C496E7465726E616C436572748314446966666572656E74696
16C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616
C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A102810082010
00000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820215A1820211A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201B43C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030384237463930314638313836413138313833383030313030383131353534
343439343634363435353234353445353434393431344332443439343434353445353434393935
343539413230453831304334393645373436353732364536313643343336353732373438333 1
343434363936363636363537323635364537343639363136433439363436353645373436393937
343739413430423835303934343439343435353730363436313734363541353334413433324 1
```

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```
3031353830304334393645373436353732364536313643343336353732373441313032383130
3038323031464641303139383031303444363136453637343537383734363537323645363136
4334333635373237344131303238313030383230313030303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201C4A18201B8808201B43C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A73636865D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038423746
393031463831383364131383138333830303130303831313534343439343634363435353234 35
344535343439343134433244343439343435344535343439353435394132304538313043343 9
364537343635373236453631364334333635373237343833313434343639363636363653732
363536453734363936313643343936343635364537343639373437394134304238353039343 4
343934343535373036343631373436354135333441343332413031353830304343436 53734
363537323645363136433433363537323734413130323831303038323031464641303139383 0
313034443631364536373435373837343635373236453631364334333635373237344131303 2
383130303832303130303030303C2F496E707574415044553E0A3C2F6E73323A5472616E73
6D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008B7F901F8186A1818380010081154449464645524 54E5449414
C2D4944454E54495459A20E810C496E7465726E616C436572748314446966666572656E74696
16C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616
C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A102810082010
00000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200008B7F901F8186A1818380010081154449464645524 54E5449
414C2D4944454E54495459A20E810C496E7465726E616C436572748314446966666572656E74
69616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E
616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A102810082
010000</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
```

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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D6172746361726453696465 2D5443
2D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A2343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383 03634313530343935463446344234423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746393032303038383230363431
353034393546344634423939303033C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the internal certificate DID. Set
      the DIDUpdate access rule to first require authentication of the
internal and external management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the internal certificate
DID. Set the ACLModify access rule to first
      require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C8001008115444946464552454E5449414C2D4944454E
54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
```

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```
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10281008201FFA0
1980104D616E6745787465726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000827F901F7EA17C80010081154449464552454E5449414C2D4
944454E54495459A20E810C496E7465726E616C43657274830D4174686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10281008
201FFA01980104D616E6745787465726E616C43657274A1028100820100000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820203A18201FFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201A23C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A33243732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030383237463930314637454131374338303031303038313135343434393
363436343535323435344535343439343134433244343934343534453534343935345394
323045383130433439364537343635373236456361364334333635373237343833304434313
735734363836463732363937413631373436393646364541343042383630393431343334433
443646363436393636373941353334413433324130313538303043343936453734363537323
645361364334333635373237344131303238313030383230314646413031393830313034443
631364536373435373837343635373236456361364334333635373237344131303238313030
323031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201B2A18201A6808201A23C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504455 3E3030433230303030303030303038323746
393031463745413137433830303030303831313534343439343634363435353234353453534
343934313443324434393434345344535343439353435394132304538313043343936453734
363537323645363136433433363537323734383330443431373537343638364637323639374 1
363137343639364636454843042383630393431433344334443646363436393636373941 35
333441343332413031383830304334393645373436353732364536313643343336353732373 4
413130323831303038323031464641303139383031303444363136453637343537383734363 5
373236453631364334333635373237344131303238313030383230313030303030303C2F496E
70757441504553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000827F901F7EA17C800100811544494646455245 4E5449414C2D4
```

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```
944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10281008
201FFA01980104D616E6745787465726E616C43657274A10281008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000827F901F7EA17C80010081154449464552454E5449414C
2D4944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A617469
6F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10281
008201FFA01980104D616E6745787465726E616C43657274A10281008201000000</encodedDat
a>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F9020088206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F9020088206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>9</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E37463930323030383832303634313530343935463446344234239930
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E37463930323030383832303634313
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the internal certificate DID. Set
     the ACLModify access rule to first require authentication of the
internal and external management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the management external
certificate DID. Set the DIDUpdate access
     rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F818AA1818780010081154449464645524 54E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C436572748314446966666572656E7469
616C4964656E74697479A40B850944494455706461746 5A534A432A015800C496E7465726E61
6C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A10281008201
00</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008F7F901F818AA1818780010081154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C436572748314446966666572 6
56E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E746
5726E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A1028
1008201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182021DA1820219A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201BC3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030303846746393031463831384141313831383738303031303038313135 34
343439343634363435313234353445353434393431344332443439343434353445353434393 5
343539413231323831313034443631364536373435373837343635373236453631364334333 6
353732373438333134343436393636363636353732363536453734363936313643343936343 6
353645373436393734373941343042383530393434343934343535373036343631373436354 1
353334413438324130313538303043343936453734363537323645363136433433363537323 7
344131303238313030383230314646413031393830313034443631364536373435373837343 6
353732364536313643343336353732373441313032383130303832303130303030303C2F49
6E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```


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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201CCA18201C0808201BC3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6 5633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646 5653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038463746
393031463831384141313831383738303031303038313135343434393436343634353532343 5
344535343439343134433244343934343435344553434339 3435394132313238313130344 4
363136453637343537383734363537323645363136433433363537323734383331343434363 9
363636363635373236353645373436393631364334335343635364537343639373437394134
304238353039343434393434353537303634363137343635413533344134333241303135383 0
304334393645373436353732364536313643343335373237344131303238313030383230 31
464641303139383031303444363136453637343537383734363537323645363136433433363 5
373237344131303238313030383230313030303030303C2F496E707574415044553E0A3C2F6E
73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008F7F901F818AA1818780010081154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C436572748314446 9666665726
56E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E746
5726E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A1028
1008201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
```

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```
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200008F7F901F818AA1818780010081154449464645524 54E5449
414C2D4944454E54495459A21281104D616E6745787465726E616C436572748314469666665
72656E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E
7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A1
02810082010000</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the management external
      certificate DID. Set the DIDUpdate access rule to first require
authentication of the internal and external
      management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the management external
certificate DID. Set the ACLModify access
      rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8183A1818080010081154449464664552454E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C43657274830D417574686F72697A6174
696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A102
810082014FA01980104D616E6745787465726E616C43657274A1028100820100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000887F901F8183A1818080010081154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C43657274830D417574686F726
97A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657
274A10281008201FFA01980104D616E6745787465726E616C43657274A10281008201000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182020FA182020BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D61274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201AE3C
6E73323A5472616E736D697420786D6C6E733A6E73323D22687726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D612223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030383837463930314638313833413138313830383030313030383131353534
34343934363436343535323435344535343439343134433244343934343534453534343935
34353941323132383131303444363136453637343537383734363537323645363136433433336
35373237343833304434313735373436383636373236393741363137343639364636454134 30
42383630393431343334433444344436463634363936363739413533344134333241303135383030
43343936453734363537323645363136453433363537323734413130323831303038323031 46
46413031393830313034443631364536373435373837343635373236456361364334333635 37
32373441313032383130303832303130303030303C2F496E707574415044553E0A3C2F6E73
323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>190</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201BEA18201B2808201AE3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038383746
393031463831383341313831383830383030313030383131353434343934363436343535323435
344535343439343134433244343934343435344535343439353435394132313238313130344
363136453637343537383734363537323645363136433433363537323734383330443431373 5
373436383646373236393741363137343639364636454134304238363039343134333443444
364636343639363637394135333441343332413031353830304334393645373436353732364 5
363136433433363537323734413130323831303038323031464641303139383031303444363 1
364536373435373837343635373236453631364334333635373237344131303238313030383 2
303130303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000887F901F8183A1818080010081154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C43657274830D417574686F726
97A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657
274A10281008201FFA01980104D616E6745787465726E616C43657274A10281008201000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000887F901F8183A1818080010081154449464645524 54E5449
414C2D4944454E54495459A21281104D616E6745787465726E616C43657274830D417574686F
72697A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43
657274A10281008201FFA01980104D616E6745787465726E616C43657274A102810082010000
</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
```

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```
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D61727463617264642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the management external
     certificate DID. Set the ACLModify access rule to first require
authentication of the internal and external
     management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Card Holder PIN DID. The Card Holder is required
to enter a PIN to authenticate this DID. This
     DID is actually a Simple Assertion DID, not an Client-Application
Secure PIN Compare Authentication DID. This
     simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382021FA182021B8001008105434850494E82072881C1170300
03A3028000A4820200301C800D43727970746F6772617068696 3A10684045369676EA2038201
00301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D
43727970746F6772617068696 3A10A840844656369706865 72A2038201003020800D43727970
746F6772617068696 3A10A8408456E636970686572A2038201003021800D43727970746F6772
6170686963A10B84094765 7452616E646F6DA203820100302580144469666665726 56E746961
6C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F67726170
686963A111840F5665726966795369676E6174757265A2038201003029800D43727970746F67
726170686963A113841156657269667943657274696669636 3617465A203820100302E80144469
66666572656E7469616C4964656E74697479A111850F4449444175746865 6E746963617465A2
038101FF3032800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432
A015800C496E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E61
6C43657274A1028100820100305980144469666665726 56E7469616C4964656E74697479A10B
85094449445570646174 65A234A432A015800C496E7465726E616C43657274A10281008201FF
A01980104D616E6745787465726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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```
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002257F901382021FA182021B8001008105434850494E82072881C
117030003A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA
203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3
020800D43727970746F67726170686963A10A84084465636970686572A2038201003020800D4
3727970746F67726170686963A10A8408456E636970686572A2038201003021800D437279707
46F67726170686963A10B840947657452616E646F6DA203820100302580144469666666572656
E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F6
7726170686963A111840F566572696679536967 6E6174757265A2038201003029800D4372797
0746F67726170686963A113841156657269667943657274696669636174657A203820100302E8
0144469666666572656E7469616C4964656E74697479A111850F4449444175746865 6E7469636
17465A2038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A
234A432A015800C496E7465726E616C43657274A10281008201FFA01980104D616E6745787465
5726E616C43657274A10281008201003059801444696666657265 6E7469616C4964656E74697
479A10B85094449445570646174 65A234A432A015800C496E7465726E616C43657274A102810
08201FFA01980104D616E6745787465726E616C43657274A10281008201000000</InputAPDU
>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820549A1820545A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818204E83C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030323235374639303133383230323146413138323032314238303031303038
3130353433343835303439344538323037323838314331313730333030303341333032383030
3041343832303230303330314338303044343337323739373037343646363737323631373036
3836393633413130363834303435333639363736454132303338323031303033303146383030
4434313735373436383646373236393741363137343639364636454131303938363037343134
3334433443363937333734413230333831303146463330323038303044343337323739373037
3436463637373236313730363836393633413130413834303834343635363336393730363836
3537324132303338323031303033303230383030443433373237393730373436463637373236
3137303638363936334131304138343038343536453633363937303638363537324132303338
3230313030333032313830304443433373237393730373436463637373236313730363836936
3341313042383430393437363537343532363136453634364636444132303338323031303033
3032353830313434343639363636363635373236353645373436393631364334393634363536
4537343639373437394131303838353036343434393434343736353734413230333831303146
4633303237383030443433373237393730373436463637373236313730363836393633413131
3138343046353636353732363936363739353336393637364536313734373537323635413230
3338323031303033303239383030443433373237393730373436463637373236313730363836
3936334131313338343131353636353732363936363739343336353732373436393636363936
3336313734363541323033383230313030333032453830313434343639363636363635373236
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353645373436393631364334393634363536453734363937343739413131313835304634343
4393434343137353734363836353645373436393633363137343635413230333831303146463
3303532383030443431373537343638364637323639374136313734363936463645413130423
8363039343134333443344434464636343639363637394132333441343332413031353830304334
3936453734363537323645363136433433363537323734413130323831303038323031464641
3031393830313034443631364536373435373837343635373236453631364334333635373237
3441313032383130303832303130303330353938303134343436393636363636353732363536
4537343639363136433439363436353645373436393734373941313042383530393434343934
3435353730363436313734363541323334413433324130313538303043343936453734363537
3236453631364334333635373237344131303238313030383230314646413031393830313034
4436313645363734353738373436353732364536313643343336353732373441313032383130
3038323031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D6974
3E</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8204F8A18204EC808204E83C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303232353746
393031333832303231464131383230323142383030313030383130353433343835303439344 5
383230373238383143313137303330303033413330323830303041343832303230330333031 43
383030443433373237393730373436463637373236313730363836393633413130363834303 4
353336393637364541323033383230313030333031463830304434313735373436383646373 2
363937413631373436393646364541313039383630373431343334433443336393733373441 32
303338313031464633303230383030443433373237393730373436463637373236313730363 8
363936334131304138343038343436353633363937303638363537324132303338323031303 0
333032303830304434333732373937303734364636373732363137303638363936334131304 1
```

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383430383435364536336393730363836353732413230333832303130303330323138303044
343337323739373037343646363737323631373036383639363341313042383430393437363 5
373435323631364536343646364644132303338323031303033303235383031343434363936 36
363636353732363536453734363936313643343936343635364537343639373437394131303 8
383530363434343934343437363537344132303338313031464633303237383030443433373 2
373937303734364636373732363137303638363936334131313138343046353636353732363 9
363637393533363936373645363137343735373236354132303338323031303033303239383 0
304434333732373937303734364636373732363137303638363936334131313338343131313 6
363537323639363637393433363537323734363936363639363336313734363541323033383 2
303130303330324538303134343436393636363636353732363536453734363936313643343 9
363436353645373436393734373941313131383530463434343934343431373537343638363 5
364537343639363336313734363541323033383130314646333035323830304434313735373 4
363836463732363937413631373436393646364541313042383630393431343334443346463 6
363436393636373941323334413433324130313538303043343936453734363537323645363 1
364334333635373237344131303238313030383230314646413031393830313034443631364 5
363734353738373436353732364536313643343336353732373441313032383130303832303 1
303033303539383031343434363936363636363537323635364537343693631364334393634
363536453734363937343739413130423835303934343439343435353730363436313734363 5
413233344134333241303135383030433439364537343635373236453631364334333635373 2
373441313032383130303832303146464130313938303130344436313645363734353738373 4
363537323645363136433433363537323734413130323831303038323031303030303030303C2F
496E707574415044553E0A3C2F6E73323A5472616E736D697373E82064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002257F901382021FA182021B8001008105434850494E82072881C
11703000A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA
203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3
020800D43727970746F67726170686963A10A840844656369706865 72A2038201003020800D4
3727970746F67726170686963A10A8408456E636970686572A203820100302 1800D437279707
46F67726170686963A10B840947657452616E646F6DA203820100302580144469666666572656
E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F6
7726170686963A111840F566572696679536967 6E6174757265A203820100302 9800D4372797
0746F67726170686963A113841156657269667943657274696669636174 65A203820100302E8
014446966666572656E7469616C4964656E74697479A111850F444944417574686 56E7469636
17465A2038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A
234A432A015800C496E7465726E616C43657274A10281008201FFA01980104D616E674578746
5726E616C43657274A1028100820100305980144469666666572656E7469616C4964656E74697
479A10B85094449445570646174 65A234A432A015800C496E7465726E616C43657274A102810
08201FFA01980104D616E6745787465726E616C43657274A10281008201000000</InputAPDU
>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>208</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F901382021FA182021B8001008105434850494E820728
81C117030003A3028000A4820200301C800D43727970746F67726170686963A1068404536967
6EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C6974A2038101
FF3020800D43727970746F67726170686963A10A840844656369706865 72A20382010030208 0
0D43727970746F67726170686963A10A8408456E636970686572A20382010030218 00D437279
70746F67726170686963A10B840947657452616E646F6DA20382010030258014446966666572
656E7469616C4964656E74697479A10885064449444476574A2038101FF3027800D4372797074
6F677261</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF70686963A111840F566572696679536967 6E6174757265
A2038201003029800D43727970746F67726170686963A113841156657269667943657274696 6
6963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F
4449444175746865 6E746963617465A2038101FF3052800D417574686F72697A6174696F6EA1
0B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10281008201
FFA01980104D616E6745787465726E616C43657274A1028100820100305980144469666666572
656E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E74
65726E61</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000276C43657274A1028100820 1FFA01980104D616E67457874
65726E616C43657274A102810082010000</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F9014088206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F9014088206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>219</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Card Holder PIN
DID. The Card Holder is required to enter a
     PIN to authenticate this DID. This DID is actually a Simple Assertion
DID, not an Client-Application Secure PIN
     Compare Authentication DID. This simplifies the test
case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the access log DID. This shall enable logging across
all non-alpha card applications. Before
     authenticating this DID require internal and CHPIN DID
authentication.</description>
  <encodedData
type="xs:hexBinary">7F9013820249A18202458001008109416363657373 4C6F6782072881
C117030003A3028000A4820226301C800D43727970746F67726170686963A10684045369676E
A203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF
3020800D43727970746F67726170686963A10A840844656369706865 72A2038201003020800D
43727970746F67726170686963A10A8408456E636970686572A2038201003021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726
5E7469616C4964656E74697479A10885064449444476574A2038101FF3027800D43727970746F
67726170686963A111840F566572696679536967 6E6174757265A203820100302980 0D437279
70746F67726170686963A113841156657269667943657274696669636361746 5A2038201003052
800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E
7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A1
028100820100305480144469666665726 56E7469616C4964656E74697479A111850F44494441
757468656E746963617465A229A427A015800C496E7465726E616C43657274A10281008201FF
```

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```
A00E8005434850494EA10281008201003059801444696666572656E7469616C4964656E7469
7479A10B85094449445570646174657A234A432A015800C496E7465726E616C43657274A10281
008201FFA01980104D616E6745787465726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000024F7F9013820249A18202458001008109416363657373 4C6F678
2072881C117030003A3028000A4820226301C800D43727970746F6772617068696 3A10684045
369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A20
38101FF3020800D43727970746F6772617068696 3A10A84084656369706865 72A2038201003
020800D43727970746F6772617068696 3A10A8408456E636970686572A2038201003021800D4
3727970746F6772617068696 3A10B840947657452616E46F6DA2038201003025801444696666
66572656E7469616C4964656E74697479A1088506449444765 74A2038101FF3027800D43727
970746F6772617068696 3A111840F566572696679536 9676E6174757265A2038201003029800
D43727970746F6772617068696 3A113841156672696679436572746966696 3617465A203820
1003052800D417574686F72697A6174696F6A10B860941434C4D6F64696679A234A432A0158
00C496E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C436
57274A1028100820100305480144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A229A427A015800C496E7465726E616C43657274A102810
08201FFA00E8005434850494EA10281008201003059801444696666657 2656E7469616C49646
56E74697479A10B85094449445570646174657A234A432A015800C496E7465726E616C4365727
4A10281008201FFA01980104D616E6745787465726E616C43657274A10281008201000000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182059DA1820599A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182053C3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303032344637463930313338323032343941313832303234353830303130303
8313039343136333633363536373337333443364636373832303732383831433131373033303030
```


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3341333032383030304134383230323236333031433830304434333732373937303734364636
3737323631373036383639363341313036383430343533363936373645413230333832303130
3033303146383030443431373537343638364637323639374136313734363936463645413130
3938363037343134333443344334363937333734413230333831303146463330323038303044 34
3337323739373037343646363637373236313730363836393633413130413834303834363536
3336393730363836353732413230333832303130303330323038303044343337323739373037
3436463637373236313730363836393633413130413834303834353645363336393730363836
3537324132303338323031303033303231383030443433373237393730373436463637373236
3137303638363936334131304238343039343736353734353236313645363436463644413230
3338323031303033303235383031343434363936363636363537323635364537343639363136
4334393634363536453734363937343739413130383835303634343439343434373635373441
3230333831303146463330323738303044343337323739373037343646363737323631373036
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3436393636363936333631373436354132303338323031303033303532383030443431373537
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4636343639363673941323334413433324130313538303043343936453734363537323645 36
3136433433363537323734413130323831303038323031466464130313938303130344436136
4536373435373837343635373236453631364334333635373237344131303238313030383230
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3636353732363536453734363936313643343936343635364537343639373437394131304238
3530393434343934343535373036343631373435354132333441343332413031353830304334
3936453734363537323645363136433433363537323734413130323831303038323031464641
3031393830313034443631364536373435373837343635373236453631364334333635373237
3441313032383130303832303130303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82054CA18205408082053C3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303234463746
393031333832303234394131383230323435383030313030383130393431363336333633733
373334433646363738323037323838314331313730333030303341333032383030303041343832
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413130363834303435333639363736454132303338323031303033303146383030443431373 5
373436383646373236393741363137343639366463645413130393836303734313433344433443
363937333734413230333831303146463330323038303044343337323739373037343646363637
373236313730363836393633413130413834303834343635363336393730363836353732413230333832303130303
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313434343639363636363635373236353645373436393631364334393634363536453743639
373437394131303838353036343434393434343736353734413230333831303146463330323 7
383030443433373237393730373436463637373236313730363836393633413131313138343046
353636353732363936363739353336393637364536313734373537323635413230333832303 1
303033303239383030443433373237393730373436463637373236313730363836393633413 1
313338343131353636353732363936363739343336353732374363936363639363336313734
363541323033383230313030333035323830304434313735374363836463732363937413631
373436393646364541313042383630393431343344334443646363436393636373941323334
413433324130313538303043343936453734363537323645363136433433363537323734413 1
303238313030383230314646413031393830313034443631364536373435373837343636353732
364536313643343336353732373441313023831303038323031303033303534383031343434
363936363636363537323635364537343693631364334393634363536453734363937343739
413131313835304634343439343434313735374363836353645373436393633631373436 35
413232394134323741303135383030433439364537343635373236453631364334333653732
373441313032383130303832303146464130304538303035343334383530343934454131303 2
383130303832303130303330353938303134343436393636363636353732363536453734363 9
363136433439363436353645373436393734373941313042383530393434343934343535373 0
363436313734363541323334413433324130313538303043343936453734363537323645363 1
364334333635373237344131303238313030383230314646413031393830313034443631364 5
363734353738373436353732364536313643343336353732373441313032383130303832303 1
303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000024F7F9013820249A18202458001008109416363657373 4C6F678
2072881C117030003A3028000A4820226301C800D43727970746F67726170686963A10684045
369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A20
38101FF3020800D43727970746F67726170686963A10A840844656369706865 72A2038201003
020800D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D4
3727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
66572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727
970746F67726170686963A111840F566572696679536967 6E6174757265A2038201003029800
D43727970746F67726170686963A113841156657269667943657274696669636174 65A203820
1003052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A0158
00C496E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C436
57274A1028100820100305480144469666665726 56E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A229A427A015800C496E7465726E616C43657274A102810
08201FFA00E8005434850494EA1028100820100305980144469666665726 56E7469616C49646
56E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E616C4365727
4A10281008201FFA01980104D616E6745787465726E616C43657274A10281008201000000</I
nputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F9013820249A18202458001008109416363657373 4C6F
6782072881C117030003A3028000A4820226301C800D43727970746F67726170686963A10684
045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374
A2038101FF3020800D43727970746F67726170686963A10A840844656369706865 72A2038201
003020800D43727970746F67726170686963A10A8408456E636970686572A203820100302180
0D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469
66666572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43
72797074</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```


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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF6F6772617068696 3A111840F5665726966795369676E61
74757265A2038201003029800D43727970746F6772617068696 3A113841156657269667943 65
72746966696 3617465A2038201003052800D417574686F72697A6174696F6EA10B860941434C
4D6F64696679A234A432A015800C496E7465726E616C43657274A10281008201FFA01980104D
616E6745787465726E616C43657274A1028100820100305480144469666665726 56E7469616C
4964656E74697479A111850F44494441757468656E746963617465A229A427A015800C496E74
65726E616C43657274A10281008201FFA00E8005434850494EA1028100820100305980144469
66666572</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C2000051656E7469616C4964656E74697479A10B85094449445570
64617465A234A432A015800C496E7465726E616C43657274A10281008201FFA01980104D616E
6745787465726E616C43657274A102810082010000</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>234</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FC81F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 3E374639303134303838323036343135303439354634463442393030
30303C2F4F7574075744150445 3E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F9014088206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the access log DID.
This shall enable logging across all
     non-alpha card applications. Before authenticating this DID require
internal and CHPIN DID authentication.</description>
  <encodedData type="xs:hexBinary">7F9014088206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```


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```
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the Alpha card application access
rules. Ensure that these access rules have not
      changed. Ensure the permissions on the Alpha card are all set to
Always.</description>
  <encodedData
type="xs:hexBinary">7F901D21A11F8001008110434152442D4150504C49434154494F4EA2
088206E82881C11702</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000257F901D21A11F8001008110434152442D4150504C494341544
94F4EA2088206E82881C117020000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820148A1820144A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303235374639303144323141313146383030313030383131303433343135
343432443431353035303443343934333431353434393446344541323038383230364538323
838314331313730323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69
743E</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81F6A181EB8081E83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044453E3030433230303030303030303032353746393031
443231413131463830303130303831313033433341353233434324434313530353034433439 34
333431353434393446344541323038383230364538323838314331313730323030303C2F49
6E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedD
ata>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000257F901D21A11F8001008110434152442D4150504C494341544
94F4EA2088206E82881C117020000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>248</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000257F901D21A11F800100811043415244D4150504C494341
54494F4EA2088206E82881C1170200</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D446174615365744
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666657265E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F43617264417070C69636174696F6EA10F820D4578656375746541
6100</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">6374696F6EA2038101FF3028801444696666572656E7469616C4964
656E74697479A10B85094449444437265617465A2038101FF3028801444696666572656E7469
616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F6E6E6563
74696F6EA11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D80
0F436172644170706C69636174696F6EA11582134361726441707 06C69636174696F6E4C6973
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B811943617264
6100</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">41707 06C69636174696F6E456E6453657373696F6EA2038101FF302F
800F436172644170706C69636174696F6EA11782154361726441707 06C69636174696F6E4372
65617465A2038101FF302F800F436172644170706C69636174696F6EA1178215436172644170
706C69636174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B
436172644170706C69636174696F6E537461727453657373696F6EA2038101FF3034800F4361
72644170706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963
654C697374A2038101FF3034800F436172644170706C69636174696F6EA11C821A4361726441
6100</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
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```
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">70706C69636174696F6E536572766963654C6F6164A2038101FF3036
800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E5365
72766963654372656174 65A2038101FF3036800F436172644170706C69636174696F6EA11E82
1C436172644170706C69636174696F6E536572766963654465C657465A2038101FF3038800F
436172644170706C69636174696F6EA120821E436172644170706C69636174696F6E53657276
69636544657363726965A2038101FF82064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A10D830B
446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109860741
434C4C697374A2038101FF302180094E616D656444617461A10F830D4461746153657443726 5
617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C657465
A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A20381
01FF302680144469666666572656E7469616C4964656E74697479A10985074449444C697374A2
038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541637469
6F6EA2038101FF3028801444696666665726 56E7469616C4964656E74697479A10B8509444944
437265617465A2038101FF3028801444696666665726 56E7469616C4964656E74697479A10B85
0944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441
70706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174
696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF302E800A436F6E
6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E656374A203
8101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E456E
6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782154361
726441707 06C69636174696F6E437265617465A2038101FF302F800F436172644170706C6963
6174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF303080
0A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274536573
73696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170
706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170706C69
636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F6164A203
8101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174
696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963617469
6F6EA11E821C436172644170706C69636174696F6E536572766963654465C657465A2038101
FF3038800F436172644170706C69636174696F6EA120821E436172644170706C69636174696F
6E536572766963654465736372696265A2038101FF82064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
```


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```
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182087EA182087AA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818208363C6E73323A5472616E736D6974526573706F6E73652078 6D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323 3A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E37463930314538323033433641313832303342414130 38
32303342363330314638303039344536313644363536343434363137343631413130443833 30
42343436313734363135333635373434433639373337344132303338313031464633303146 38
30304434313735373436383646373236393741363137343639364645413130393836303734
31343334433443363937333734413230333831303146463330323138303039344536313644 36
35363434343631373436314131304638333044343436313734363135333635373434333732 36
35363137343635413230333831303146463330323138303039344536313644363534343436
31373436314131304638333044343436313734363135333635373434343635364336353734 36
35413230333831303146463330323138303044343137353734363836463732363937413631 37
34363936463645413130423836303934313433344334436463634363936363739413230333 38
31303146463330323638303134343436393636363636353732363536453734363936313643 34
39363436353645373436393734373941313039383530373434343934343443363937333734 41
32303338313031464633303237383030463433363137323634343137303730364336393633 36
31373436393646363645413130463832304434353738363536333735373436353431363337 3436
39364636454132303338313031464633303238383031343434363936363636363536732363536
45373436393631364334393634363536453734363937343739413130423835303934343439 34
34343337323635363137343635413230333831303146463330323838303134343436393636 36
36363537323635363645373436393631364334393634363536453734363937343739413130 4238
35303934343439343434343635364336353734363541323033383130314646333032423830 30
41343336463645364536353633734363936463645413131383831313634333631373236343 4
31373037303643363936336313734363936463645343336463645364536353633734363936 4633
31373037303643363936336313734363936463645343337323635363137343636
35413230333831303146463330324638303046343336137323634343137303730364336393 6
33363137343639364636454131313738323135343336137323634343137303730364336393 6
33363137343639364636453434363536433635373436354132303338313031464633300330 38
30304134333646364536453635363337343639364636454131314438313142343336313732 36
34343137303730364336393633363137343639364636453533373436313732373435333635 37
33373336393646364541323033383130314646333033343830304634333631373236343431 37
30373036433639363336313734363936463645413131433832314134333631373236343431 37
30373036433639363336313734363936463645353336353732373636393633363534433639 37
33373441323033383130314646333033343830304634333631373236343431373037303643 36
39363336313734363936463645413131433832314134333631373236343431373037303643 36
39363336313734363936463645353336353732373636393633363534433646363136344132 30
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333831303146463330333638303046343336313732363434313730373036433639363336313734363936393633363137
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</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous write.</description>
  <encodedData type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The payload is an XML message. The XML is the
      marshalled response object from the previous IFD response.</description>
  <encodedData type="xs:hexBinary">7F9F2D820846A182083A808208363C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393031453832303343364131383230333424141303832303342363330314638303039344536313644363536343436313734363141313044383330423434363137343631353336353734344336393733373344132303338313031464633303146383030443431373537343638364637323639374136313734363936463645413130393836303734313433344433443363937333734413230333831303146464333032313830303934453631364436353634343436313734363141313046383330443434363137343631353336353734343337323635363137343635413230333831303146464333032313830303934453631364436353634343436313734363141313046383330443434363137343631353336353734363541323033383130314646333032313830303934453631364436353634343436313734363141313046383330443434363137343631353336353734363541323033383130314646333032313830303934
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383646373236393741363137343639364636454131304238363039343134333443344436463634363936373941363137343639364636454131304238363039343134333443344436463634363936373941323033383130314646333032363830313434343639363636363537323635364537343639363136433439363436353645373436393631343436393631343436393631343
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      <Result>IFD_OK</Result>

  <OutputAPDU>7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A10D830B
446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109860741
434C4C697374A2038101FF302180094E616D656444617461A10F830D4461746153657443726 5
617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C657465
A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A20381
01FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C697374A2
038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541637469
6F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944
437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85
0944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA1188116436172644 1
70706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174
696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A436F6E
6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E656374A203
8101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E456E
6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782154361
72644170706C69636174696F6E437265617465A2038101FF302F800F436172644170706C6963
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0A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274536573
73696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170
706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170706C69
636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F6164A203
8101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174
696F6E5365727669636543726 5617465A2038101FF3036800F436172644170706C6963617469
6F6EA11E821C436172644170706C69636174696F6E536572766936544656C657465A2038101
FF3038800F436172644170706C69636174696F6EA120821E436172644170706C69636174696F
6E536572766936544657363726 96265A2038101FF82064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the Alpha card application access rules.
    Ensure that these access rules have not changed. Ensure the permissions
on the Alpha card are all set to Always.</description>
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541
6374696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509
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A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
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636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264417070
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6C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF
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53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
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6174696F6EA11E821C436172644170706C69636174696F6E536572766963654465 6C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E436172644170706C696361
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</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the Alpha card application DID list
of global DIDs. Ensure that the DID list contains the newly
     created DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
```

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```
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374639303131303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A2020202 3C496E707574415044553E3030433230303030303030303030393746393031
3130354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
    </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90123EA134A0321A05434850494E1A094163636573734C6F671A0C
496E7465726E616C436572741A104D616E6745787465726E616C43657274820641504 95F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90123EA134A0321A05434850494E1A094163636573734C6F671A0C496E74
65726E616C436572741A104D616E6745787465726E616C43657274820641504 95F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>15</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182016AA1820166A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D32818201223C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031323345413133334413033323134130353433 34
3835303439344531413039343136333633363537333733344336463637314130433439364537
3436353732364536313643343336353732373431413130344436313645363734353738373436
3537323645363136433433363537323734383230363431353034393546344634423930303 03C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</en
codedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820132A182012680820122 3C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
```

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```
4B3C2F526573756C743E0A202020203C4F7574075744150445 53E37463930313233454131333
3441303332314130353433343835303439344531413039343136333633363537333733344336
4636373141304334393645373436353732364536313643343336353732373431413130344436
3136453637343537383734363537323645363136433433363537323734383230363431353034
3935463446344239303030 3C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D69
74526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90123EA134A0321A05434850494E1A094163636573734C6F671A0C496E74
65726E616C436572741A104D616E6745787465726E616C43657274 82064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the Alpha card application DID list of global DIDs. Ensure
     that the DID list contains the newly created DIDs.</description>
  <encodedData
type="xs:hexBinary">7F90123EA134A0321A05434850494E1A094163636573734C6F671A0C
496E7465726E616C436572741A104D616E6745787465726E616C43657274 82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the Alpha card application data set
list. Ensure that the data set list is
     empty.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>16</annexAId>
```


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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746568683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463731303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>284</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303039746384637
3130354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C20000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D536573736F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D613323E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F5574707574415044553E3746384637323043413130324130303038323036343135303
343935463446344623930303033C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463732304341313032413
3030383230363431353034393546344634423930303033C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the Alpha card application data set list.
     Ensure that the data set list is empty.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the Alpha card application.
Transmit on the IFDProxy shall be invoked to
      transmit the CardApplicationDisconnect APDU to the Alpha card
application. After transmit has completed, disconnect
      shall be invoked on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C2000000000097F8F5905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>17</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504455 3E303043323030303030303030303393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
```

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```
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E7365207865D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
```

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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4FAB</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application. Transmit
     on the IFDProxy shall be invoked to transmit the
CardApplicationDisconnect APDU to the Alpha card application. After
     transmit has completed, disconnect shall be invoked on the
IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>
```


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```
        <ContextHandle>00</ContextHandle>
      </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContextResponse>

        <Result>IFD_OK</Result>
      </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E74657874526573706F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E74657874526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A2020202020526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32821C436C69656E7441707053696465 2D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
```

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```
    <invAspect>
      <refId>338</refId>
      <annexAId>18</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>terminate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
    This shall automatically invoke
         ReleaseContext on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>339</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData
    type="xs:hexBinary">7F9F2742A140A03E801C536D6172746361726453696465 2D54432D53
    657373696F6E49442D318100821C536D6172746361726453696465 2D54432D53657373696F6E
    49442D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>340</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

B.2 Application management - first application data structure construction

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements the ENVELOPE APDU) as described in Annex A.1.2, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.2.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>CALL</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
```

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```
      read method and wait for requests. The order of this call and the read
call in relation to the client application
      side is undefined. The channel handle returned by open on the smartcard
side can be different to that returned on the
      client application side.</description>
  <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
</invAspect>
<invAspect>
  <refId>2</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Open the trusted channel on the smartcard host side. Next the
smartcard host server will invoke the TC
      read method and wait for requests. The order of this call and the read
call in relation to the client application
      side is undefined. The channel handle returned by open on the smartcard
side can be different to that returned on the
      client application side.</description>
  <encodedData
type="xs:hexBinary">7F9F244AA140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D318100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the Alpha card application. This
shall first invoke connect on the IFDProxy. In
      turn connect shall be invoked on the IFD layer on the client side.
After connect has completed, transmit on the
      IFDProxy shall be invoked to transmit the CardApplicationConnect APDU
to the Alpha card application. The IFD Name
```

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```
     shall need to be replaced with an actual reader name when comparing the
results to results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D6172746361726425D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A2020202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A2020202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A2020202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A2020202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A2020202020202020203C53657373696F6E4964656E74696669
```

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```
65723E436C69656E7441707053696465 2D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787 4526573706F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
```

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```
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E746578745265737706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787452657370706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D69656633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>
```

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```
      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A323437322373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
```

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```
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

       <ContextHandle>00</ContextHandle>

         <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374696F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820199A1820195A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201383C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030303444374638463537343941313437413034324131314238303139363837
343734373033413246324637333644363137323734363336313732363432443638364637333 7
343245364536353734383331383432364337353635323034393436343432303536353635363136
343635373232303533344533323334333333323431333438343031303130383533364538323838
3143313137303238313031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820148A182013C808201383C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303034443746
384635373439413134374130343241313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
```

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```
343236433735363532303439343634343230353236353631363436353732323035333445333233343333333234313334383430313031383530364538323838314331313730323831303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer. Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D617274636172642D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101850 6E82881C117028101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C200004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746361726422D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101850 6E82881C1170281010000</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
```

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```
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A737469A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384635383044413130333830303130303832303634 31
353034393546344634423930303 3C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463538304441313033383830
303130303832303634313530343935463446344239303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E8206A150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the Alpha card application. This shall first
     invoke connect on the IFDProxy. In turn connect shall be invoked on the
IFD layer on the client side. After connect
     has completed, transmit on the IFDProxy shall be invoked to transmit
the CardApplicationConnect APDU to the Alpha
     card application. The IFD Name shall need to be replaced with an actual
reader name when comparing the results to
     results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application DID list
of global DIDs. Ensure the CardApplicationList only contains
     the Alpha card application.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463546303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504553E303043323030303030303030303393746384635
463035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5F05A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F6014A10AA0080406E82881C1170282064150495F4F4B9000</en
codedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F6014A10AA0080406E82881C1170282064150495F4F4B9000</OutputAP
DU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820115A1820111A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181CE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
```

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```
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636303134413130414130303830343036453832383
38314331313730323832303634313530343935463446344239303030303C2F4F75747075744150
44553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81DCA181D18081CE3C6E73323A5472616E736D697452657370
6F6E73652078 6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
373237 3A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636303134413130414130
303830343036453832383831433131373032383230363431353034393546344463442393030
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
```


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```
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F6014A10AA0080406E82881C1170282064150495F4F4B9000</OutputAP
DU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application DID list of global DIDs. Ensure
      the CardApplicationList only contains the Alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F6014A10AA0080406E82881C1170282064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Ensure the A00000041000010001 card application
does not exist at the following location:
      IFD Name: Blue IFD Reader SN2432A4; Slot: 1. An error response
(API_INCORRECT_PARAMETER) is expected.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E657483184426C7565204946442052656164657220534E323433324134840101
8509A0000004100001000181010O</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
```

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```
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100001000181010000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726 4536964652D54432D
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D22757 26E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D6122 3E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A2020202030 496E707574415044553E303043
323030303030303030353037463846353734434131344143 30343541313142383031393638 37
343734373033413246324637333644363137323734363336 31373236343244363836463733 37
343245364536353734383331383432364337353635323034 393436343432303532363536313 6
343635373232303533344533323334333333323431333438 343031303138353039413030303 0
303043130303030313030303138313031303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000100018101000000</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F581982174150495F494E434F52524543545F504152414D455445
529000</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F581982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011FA182011BA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D83C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383139383231373431353034393546343934
3433446353235323435343335343546353034313532343134443435353434353532393030303
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383139383231373431
353034393546343934453433344635323532343534333534354635303431353234313443435
353434353532393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974
526573706F6E73653E820641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F581982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
```

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```
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
A00000041000010001 card application does not
     exist at the following location: IFD Name: Blue IFD Reader SN2432A4;
Slot: 1. An error response
     (API_INCORRECT_PARAMETER) is expected.</description>
  <encodedData
type="xs:hexBinary">7F8F581982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the A00000041000010001 application with all of the
access rules are set to always.</description>
  <encodedData
type="xs:hexBinary">7F8F618203CCA18203C880010081 09A00000041000010001A28203B6
301F80094E616D656444617461A10D830B4461746153657 44C697374A2038101FF301F800D41
7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D656444617461
A10F830D4461746153657444656C657465A2038101FF3021800D417574686F72697A6174696F
6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D4578656375746541637469 6F6EA2038101FF3028801444696666657265 6E7469
616C4964656E74697479A10B850944494437265617465A2038101FF3028801444696666657265
656E7469616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F
6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101
FF302D800F436172644170706C69636174696F6EA1158213436172644170706C69636174696F
6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C6963
6174696F6E44697363F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B8119
436172644170706C69636174696F6E456E6453657373696F6EA2038101FF302F800F43617264
4170706C69636174696F6EA1178215436172644170706C69636174696F6E437265617465A203
8101FF302F800F436172644170706C69636174696F6EA1178215436172644170706C69636174
696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170
706C69636174696F6E537461727453657373696F6EA2038101FF3034800F436172644170706C
69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C697374A2
038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170706C696361
74696F6E536572766963654C6F6164A2038101FF3036800F436172644170706C69636174696F
6EA11E821C436172644170706C69636174696F6E536572766963654372656174 65A2038101FF
3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E
536572766963654456C657465A2038101FF3038800F436172644170706C69636174696F6EA1
20821E436172644170706C69636174696F6E536572766963654465736372696265A2038101FF
</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000003D27F8F618203CCA18203C88001008109A00000041000010001A
28203B6301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301
F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616
D656444617461A10F830D446174615365744372656174 65A2038101FF302180094E616D65644
4617461A10F830D44617461536574446 56C657465A2038101FF3021800D417574686F72697A6
174696F6EA10B860941434C4D6F64696679A2038101FF30268014446966666572656E7469616
C4964656E74697479A10985074449444C697374A2038101FF3027800F436172644170706C696
36174696F6EA10F820D45786563757465416374696F6EA2038101FF3028801444696666665726
56E7469616C4964656E74697479A10B85094449444372656174 65A2038101FF3028801444696
6666572656E7469616C4964656E74697479A10B8509444944446 56C657465A2038101FF302B8
00A436F6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A
2038101FF302D800F436172644170706C69636174696F6EA1158214361726441707 06C69636
174696F6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707
06C69636174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA
11B81194361726441707 06C69636174696F6E456E6453657373696F6EA2038101FF302F800F4
36172644170706C69636174696F6EA1178215436172644170706C69636174696F6E437265617
465A2038101FF302F800F436172644170706C69636174696F6EA1178215436172644170706C6
9636174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B43617
2644170706C69636174696F6E5374617274536573 3696F6EA2038101FF3034800F436172644
170706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6
97374A2038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170706
C69636174696F6E536572766963654C6F6164A2038101FF3036800F436172644170706C69636
174696F6EA11E821C436172644170706C69636174696F6E536572766963654372656174 65A20
38101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C6963617
4696F6E536572766963654465 6C657465A2038101FF3038800F436172644170706C696361746
96F6EA120821E436172644170706C69636174696F6E536572766963654465736372696265A20
38101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318208A3A182089FA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818208423C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303033443237463846363138323033434341313832303343383830303130303
313039413030303030303034313030303031303030314132383230334236333031463830303934
4536313644363536343434363137343631413130443833304234343631373436313533363537
```

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```
34344336393733373441323033383130314646333031463830304434313735373436383646373236393733373441323033383130314646333031463830304434313735373436383646373236393741363137343639364636454131303938363037343134333443344336393733373441323033383130314646333032313830303934453631364436353634343436313734363141313046383330443436313734363135333635373434343635364336353734363541
```

```
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820852A18208468082084 23C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A737465A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303344323746
384636313832303343434131383230334338383030313030383130394130303030303034313 0
303030313030303141323832303342363330314638303039344536313644363536363434343631
373436314131304483330423434363137436313533363537343443363937333734413230333
383130314646333031463830304434313 3537343638364637323639374136313734363936646
364541313039383630373431343334433443363937333734413230333831303146463330323 1
383030393445363136443635363434343631373436314131304638333044343436313734363 1
353336353734343337323635363 5734365413230333831303146463330323138303044343137353336353734
343436353643363537343635413230333831303146463330323138303044343137353736383 8
364637323639374136313734363936463645413130423836303934313433344334436463634
363936363739413230333831303146463330323638303134343436393636363636353732363 5
364537343639363136433439363436353645373436393734373941313039383530373434343 9
343434433639373337344132303338313031464633303237383030463433361373236343431
373037303643369363336313734363936463645413130463832304434353738363536333735
373436353431363337343639364636454132303338313031464633303238383031343434363 9
363636363537323635364537343639363136433439363436353645373436393734373941313
304238353039343434393434343337323635363137343635413230333831303146463330323 8
383031343436393636363636353732363536453734363936313643343936343635364536373 4
363937343739413130423835303934343439343434343635364336353734363541323033383 1
303146463330324238303041343336463645364536353633373436393646364541313138383 1
313634333631373236343431373037303643363936333631373436393646364541313338463 5
364536353633373441323033383130314646333032443830304634333631373236343431373 0
373036433639363336313734363936463645413131353832313334333631373236343431373 0
373036433639363336313734363936463645344336393733373441323033383130314646333 0
324538303041343336463645364536353633373436393646364541313142383131393493346 1
373236343431373037303643363936333631373436393646364541343639373336336463645
364536353633373441323033383130314646333032453830304134333646364536453633633
373436393646364541313142383131393433363137323634343137303730364336393633631
373436393646364534353645363435333635373337333639364636454132303338313031464 6
333032463830304634333631373236343431373037303643363936333631373436393646364 5
413131373832313534333631373236343431373037303643363936333631373436393646364 5
```

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343337323635363137343635413230333831303146463330324638303046343336313732363434
343137303730364336393633363137343639364636454131313738323135343336313732363434
343137303730364336393633363137343639364636453434363536433635373436354132303334
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373036433639363336313734363936463645413131453832314334333631373234343137303730
373036433639363336313734363936463645353336353732373636393633363534333732363534
363137343635413230333831303146463330333638303046343336313732363434313730373036
364336393633363137343639364636454131313453832314334333631373234343137303730373
364336393633363137343639364636453533363537323736363936333635343436353643363534
373436354132303338313031464633303338383030463433363137323634343137303730364336
363936333631373436393646363645413132303832314534333631373236343431373037303643
363936333631373436393646363645353336353732373636393633363534343635373336333732
363936323635413230333831303146463030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000003D27F8F618203CCA18203C88001008109A0000004100001000 1A
28203B6301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301
F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616
D656444617461A10F830D44617461536574437265617465A2038101FF302180094E616D65644
4617461A10F830D44617461536574446564657465A2038101FF3021800D417574686F72697A6
174696F6EA10B860941434C4D6F64696679A2038101FF3026801444696666665726 56E7469616
C4964656E74697479A10985074449444C697374A2038101FF3027800F436172644170706C696
36174696F6EA10F820D45786563757465416374696F6EA2038101FF3028801444696666665726
56E7469616C4964656E74697479A10B85094449444437265617465A2038101FF3028801444696
6666572656E7469616C4964656E74697479A10B850944494444656C657465A2038101FF302B8
00A436F6E6E656374696F6EA11881164361726441707 06C69636174696F6E436F6E6E656374A
2038101FF302D800F436172644170706C69636174696F6E6EA11582134361726441707 06C69636
174696F6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707
06C69636174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA
11B81194361726441707 06C69636174696F6E456E6453657373696F6EA2038101FF302F800F4
36172644170706C69636174696F6EA11782154361726441707 06C69636174696F6E437265617
465A2038101FF302F800F436172644170706C69636174696F6EA11782154361726441707 06C6
9636174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B43617
2644170706C69636174696F6E537461727453657373696F6EA2038101FF3034800F436172644
170706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6
```

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97374A2038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170706
C69636174696F6E536572766963654C6F6164A2038101FF3036800F436172644170706C69636
174696F6EA11E821C436172644170706C69636174696F6E536572766963654372656174 65A20
38101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C6963617
4696F6E536572766963654656C657465A2038101FF3038800F436172644170706C696361746
96F6EA120821E436172644170706C69636174696F6E536572766963654465736372696265A20
38101FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F618203CCA18203C8800100810 9A000000410000100
01A28203B6301F80094E616D656444617461A10D830B44617461536574 4C697374A2038101FF
301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E
616D656444617461A10F830D4461746153657443726561 7465A2038101FF302180094E616D65
6444617461A10F830D4461746153657444656C65746 5A2038101FF3021800D417574686F7269
7A6174696F6EA10B860941434C4D6F64696679A2038101FF3026801444696666665726 56E7469
616C4964656E74697479A10985074449444C697374A2038101FF3027800F436172644170706C
69636174</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF696F6EA10F820D4578656375746541637469 6F6EA20381
01FF3028801444696666665726 56E7469616C4964656E74697479A10B85094449444372656174
65A2038101FF3028801444696666665726 56E7469616C4964656E74697479A10B850944494444

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656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441707 06C6963
6174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174696F6EA115
821343617264417070 6C69636174696F6E4C697374A2038101FF302E800A436F6E6E65637469
6F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E656374A2038101FF302E
800A436F</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6E
A11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264
4170706C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A203
8101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374
617274536573736 96F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A
436172644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172
64417070</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000D56C69636174696F6EA11C821A436172644170706C696361
74696F6E536572766963654C6F6164A2038101FF3036800F436172644170706C69636174696F
6EA11E821C436172644170706C69636174696F6E536572766963654372656174 65A2038101FF
3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E
536572766963654656C657465A2038101FF3038800F436172644170706C69636174696F6EA1
20821E436172644170706C69636174696F6E536572766963654465736372696265A2038101FF
00</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F620882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F620882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
```

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6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384636323038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636323038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F620882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the
A00000041000010001 application with all of the access rules
      are set to always.</description>
  <encodedData type="xs:hexBinary">7F8F620882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the newly created card application. Ensure that
multiple connections to different card
      applications are supported.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A00000041000010001810100000 0</InputAPDU>
      </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757474415044553E303043
32303030303030303035303746384635373443413134414130343541313142383031393638373
34373437303341324632463733364436313732373436333631373236343244363836463733373
34324536453635373438333138343236433735363532303439343634342303532363536313634
34363537323230353334453332333433333332343133343834303130313835303941303030303
30303431303030303031303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
```

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786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031300303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100001000181010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100001000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818103C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A20202020 3C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130313832303634 31
353034393546344634423930303 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA1038001018206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the newly
created card application. Ensure that multiple
     connections to different card applications are supported.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001018206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>117</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
 <description>Retrieve the A00000041000010001 card application access rules.
Ensure that the ACL is the same as the one
     specified in the CardApplicationCreate call.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A00000041000010010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323837463930314432344131323238303031303138313130343334313532
343432443431353035303443343934333431353434393446344541323042383230394130303 0
3030303431303030303130303031303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>7</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
443234413132323830303130313138313130343334313532343432443431353035303443343934
333431353434393446344541333042383230394130303030303030343130303030313030303130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A000000410000100010000</InputAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010181104341524 42D4150504C494341
54494F4EA20B8209A000000410000 1000100</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF30268014446966666572656E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F43617264417070 6C69636174696F6EA10F820D4578656375746541
6100</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">6374696F6EA2038101FF3028801444696666572656E7469616C4964
656E74697479A10B85094449444437265617465A2038101FF3028801444696666572656E7469
616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F6E6E6563
74696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101FF302D80
0F436172644170706C69636174696F6EA1158213436172644170706C69636174696F6E4C6973
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B811943617264
6100</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">4170706C69636174696F6E456E6453657373696F6EA2038101FF302F
800F436172644170706C69636174696F6EA1178215436172644170706C69636174696F6E4372
65617465A2038101FF302F800F436172644170706C69636174696F6EA1178215436172644170
706C69636174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B
436172644170706C69636174696F6E537461727453657373696F6EA2038101FF3034800F4361
726441707 06C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963
654C69737 4A2038101FF3034800F436172644170706C69636174696F6EA11C821A4361726441
6100</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">70706C69636174696F6E536572766963654C6F6164A2038101FF3036
800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E5365
72766963654372656174 65A2038101FF3036800F436172644170706C69636174696F6EA11E82
1C436172644170706C69636174696F6E536572766963654465 6C657465A2038101FF3038800F
436172644170706C69636174696F6EA120821E436172644170706C69636174696F6E53657276
69636544657363726965A2038101FF82064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A10D830B
446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109860741
434C4C697374A2038101FF302180094E616D656444617461A10F830D4461746153657443726 5
617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C657465
A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A20381
01FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C697374A2
038101FF3037800F436172644170706C69636174696F6EA10F820D4578656375746541637469
6F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944
437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85
0944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441
70706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174
696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A436F6E
6E656374696F6EA11B81194361726441 70706C69636174696F6E446973636F6E6E656374A203
8101FF302E800A436F6E6E656374696F6EA11B81194361726441 70706C69636174696F6E456E
6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782154361
72644170706C69636174696F6E437265617465A2038101FF302F800F436172644170706C6963
6174696F6EA1178215436172644170706C69636174696F6E44656C657465A2038101FF303080
0A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274536573
73696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170
706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170706C69
636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F6164A203
8101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174
696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963617469
6F6EA11E821C436172644170706C69636174696F6E536572766963654465 6C657465A2038101
```

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```
FF3038800F436172644170706C69636174696F6EA120821E436172644170706C69636174696F
6E536572766963654465736372696265A2038101FF82064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182087EA182087AA03E801C536D617274636172645369646652D
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73696F6E49442D32818208363C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574075744150445 53E37463930314538323033433641313832303342414130 38
32303342363330314638303039344536313644363536343433631373436314131304438333 0
42343436313734363135333635373434433639373337344142303338313031464633301463 8
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31373436393646364541313046382304434353738363536333735373436353431363337343 6
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31373037303643639363336313734363936463645343336463645364536353633373441323 0
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</invAspect>
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  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
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</invAspect>
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  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820846A182083A808208363C6E73323A5472616E736D697452
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3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E374639303145383230334 3
364131383230334241413038323033423633303146383030393445363136443653634343436
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4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A10D830B
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434C4C697374A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C657465
A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A20381
01FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C697374A2
038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541637469
6F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944
437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85
0944494444656C657465A2038101FF302B800A436F6E6E6563746967 6EA11881164361726441
70706C69636174696F6E436F6E6E656374A2038101FF302D800F4361726441707 06C69636174
696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A436F6E
6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E656374A203
8101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E456E
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72644170706C69636174696F6E437265617465A2038101FF302F800F436172644170706C6963
6174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF303080
0A436F6E6E656374696F6EA11D811B4361726441707 06C69636174696F6E5374617274536573
73696F6EA2038101FF3034800F4361726441707 06C69636174696F6EA11C821A436172644170
706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170706C69
636174696F6EA11C821A4361726441707 06C69636174696F6E536572766963654C6F6164A203
8101FF3036800F4361726441707 06C69636174696F6EA11E821C4361726441707 06C69636174
696F6E536572766963654372656174 65A2038101FF3036800F4361726441707 06C6963617469
6F6EA11E821C4361726441707 06C69636174696F6E536572766963654465C657465A2038101
FF3038800F4361726441707 06C69636174696F6EA120821E4361726441707 06C69636174696F
6E536572766963654465736372696265A2038101FF82064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A0000041000010001 card application access rules. Ensure
     that the ACL is the same as the one specified in the
CardApplicationCreate call.</description>
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
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6374696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509
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74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264417070
6C69636174696F6EA1178215436172644170706C69636174696F6E44656C657465A2038101FF
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64A2038101FF3036800F436172644170706C69636174696F6EA11E821C4361726441707 06C69
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</invAspect>
<invAspect>
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  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000010001 card application DID list.
Ensure that the DID list is empty. A newly
     created card application should have an empty DID list.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
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```
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
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6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374639303131303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
313035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90120CA102A00082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
```

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```
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455E3746393031323043413130324130303038323036343135530
343935463446344239303030 3C2F4F757470757441504455E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455E3746393031323043413130324130
```

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```
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90120CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application DID list. Ensure that
     the DID list is empty. A newly created card application should have an
empty DID list.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000010001 card application data set
list. Ensure that the data set list is empty. A
     newly created card application should have an empty data set
list.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA05780C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637313035413130333830303130313030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>164</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A2020202 03C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323043413130324130303038323036343135 30
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637323043413130324130
3030383230363431353034393546344634423933030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application data set list. Ensure
     that the data set list is empty. A newly created card application
should have an empty data set list.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
```

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```
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the internal certificate DID. The internal certificate
DID is used to verify that this is a valid
     smartcard. First create the DIDs then restrict the DID modification
permissions. The modification access rules refer
     to the Internal and External DIDs. One of these may not have yet been
created. This DID is actually a Simple
     Assertion DID, not an Client Application Asymmetric Internal
Authentication DID. This simplifies the test case.
     Ensure that multiple DIDs with the same name can exist in multiple card
applications.</description>
  <encodedData
type="xs:hexBinary">7F90138201C4A18201C0800101810C496E7465726E616C4365727482
072881C117030003A3028000A482019E301C800D43727970746F67726170686963A106840453
69676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A203
8101FF3020800D43727970746F67726170686963A10A840844656369706865726A20382010030
20800D43727970746F67726170686963A10A8408456E6369706865726A2038201003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA20382010030258014446966666572656
6E7469616C4964656E74697479A10885064449444476574A2038101FF3027800D43727970746F
67726170686963A111840F566572696679536967 6E6174757265A203820100302880144469666
666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101FF302980
0D43727970746F67726170686963A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F4449444175746865
6E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CA7F90138201C4A18201C0800101810C496E7465726E616C436
5727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A10
684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697
374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A2038
201003020800D43727970746F67726170686963A10A8408456E6369706865726A203820100302
1800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D4
3727970746F67726170686963A10B840947657452616E646F6DA20382010030258014446966
66572656E7469616C4964656E74697479A10885064449444476574A2038101FF3027800D43727
970746F67726170686963A111840F566572696679536967 6E6174757265A203820100302880144469
666666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101F
F3029800D43727970746F67726170686963A113841156657269667943657274696669636174 6
5A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444944417
57468656E746963617465A2038101FF0000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820493A182048FA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818204323C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303031434137463930313338323031433441313832303143303830303130313
31304334393645373436353732364536313643343336353732373438323037323838314331313
37303330303033413330323830303041343832303139453330314338303044343337323739373
30373436463637373236313730363836393633413130363834303435333639363736454132303
33383230313030333031463830304434313735373436383663732363937413631303139383630
46364541313039383630373431343334433443363937337344132303338313031464633303230
30383030443433373237393730373436463637373233313730363836393633413130413034333
43834343635363336393730363836353732413230333832303130303330323038303044343337
32373937303734364636373732363137303638363936334131304138343038343536453633363
39373036383635373241323033383230313030333032313830304434313735373436383646373
32363937413631373436393646364541313042383630393431343334433444364636343639363
36373941323033383130314646333032313830304434333732373937303734364636373732363
31373036383639363341313042383430303437363537343532363136453634364636444132303
33383230313030333032353830313434343639363636363635373236353645373436393631363
43343936343635364537343639373437394131303838353036343434393434343736353734413
32303338313031464633303237383030443433373237393730373436466367373236313730363
38363936334131313138343044353636353732363936367393533363936373645363137343736
35373236354132303338323031303033303238383031343434363936366366363532363536363
45373436393631364334393634363536453734363937343739413130423835303934343439343
34353537303634363137343635413230333831303146463330323938303044343337323739373
30373436463637373236313730363836393633413131313338343131353636353732363936363
73934333635373237343639363636393633363137343635413230333832303130303033303245
30313434343639363636363635373236353645373436393631364334393634363536453734363
39373437394131313138353046343434393434343137353734363836353645373436393633363
31373436354132303338313031464630303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>10</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820442A1820436808204333C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303143413746
393031333832303143344413138323031433038303031303138313043343936453734363537323
364536313643343336353732373438323037323838314331313730333030303341333032383030
303041343832303139453330314338303044343337323739373037343646363737323631373030
363836393633413130363834303435333639363736454132303338323031303033303146383030
304434313735373436383646373236393741363137343639364636454131303938363037343131
343334433443363937333734413230383831303146463330323038303044343337323739373037
373436463637373236313730363836393633413130413834303834343635363336393730363830
363537324132303338323031303033303230383030443433373237393730373436463637373231
363137303638363936334131304138343038343536453633363937303638363537324132303331
383230313030333032313830304434313735373436383646373236393741363137343639364636
364541313042383630393431343334433444364636343639363637394132303338313031464636
333032313830304434333732373937303734364636373732363137303638363936341313042383
430393437363537943532363136453634364636444132303338323031303033032353830313434
343639363636363537323635364537343639363136433439363436353645373436393631364334
393634373437394131303838353036343434393434343736353734413230333831303146463330
323738383031343434363936363636363537323635364537343639363136433439363436353645
373436393734373941313042383530393434343934343535373036343631373436353631373239
413230333831303146463330323938303044343337323739373037343646363737323631373036
383639363341313133383431313536363537323639363637393433363537323734363936363635
373236353645373436393631364334393634363536453734363937343739413131313835304634
343439343434313735373436383635364537343639363336313734363541323033383130313030
4646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CA7F90138201C4A18201C0800101810C496E7465726E616C436
5727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A10
684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414346C697
374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A2038
201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100302
1800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D4
3727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
66572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727
970746F67726170686963A111840F566572696679536967 6E6174757265A2038201003028801
4446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101F
F3029800D43727970746F67726170686963A113841156657269667943657274696669636174 6
5A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444944417
57468656E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F90138201C4A18201C0800101810C496E7465726E616C
436572748207288 1C117030003A3028000A482019E301C800D43727970746F67726170686963
A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
697374A203810FF3020800D43727970746F67726170686963A10A840844656369706865726A2
038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF302180
0D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469
66666572</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>180</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000CB656E7469616C4964656E74697479A10885064449444765
74A2038101FF3027800D43727970746F6772617068696 3A111840F5665726966795369676E61
74757265A203820100302880144469666665726 56E7469616C4964656E74697479A10B850944
4944557064617465A2038101FF3029800D43727970746F6772617068696 3A113841156657269
667943657274696666963617465A203820100302E80144469666665726 56E7469616C4964656E
74697479A111850F44494441757468656E746963617465A2038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>10</annexAId>
```


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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the internal
certificate DID. The internal certificate DID is
     used to verify that this is a valid smartcard. First create the DIDs
then restrict the DID modification permissions.
     The modification access rules refer to the Internal and External DIDs.
One of these may not have yet been created.
     This DID is actually a Simple Assertion DID, not an Client Application
Asymmetric Internal Authentication DID. This
     simplifies the test case. Ensure that multiple DIDs with the same name
can exist in multiple card applications.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the management external certificate DID. The
management external certificate DID is used to
     provide an external party with full privileges. First create the DIDs
then restrict the DID modification permissions.
     The modification access rules refer to the Internal and External DIDs.
This DID is actually a Simple Assertion DID,
     not an Client Application External Authenticate with Certificates DID.
This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F90138201C8A18201C480010181104D616E6745787465726E616C43
65727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F6772617068696A10A840844656369706865726A203
8201003020800D43727970746F6772617068696A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D
43727970746F6772617068696A10B840947657452616E646F6DA203820100302580144469666
666572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D4372
```

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```
7970746F67726170686963A111840F566572696679536967 6E6174757265A203820100302880
1444696666657265 6E7469616C4964656E74697479A10B8509444944557064617465A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CE7F90138201C8A18201C480010181104D616E6745787465726
E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686
572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2038
201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3
021800D43727970746F67726170686963A10B84094765745261 6E646F6DA2038201003025801
444696666657265 6E7469616C4964656E74697479A1088506444944476574A2038101FF30278
00D43727970746F67726170686963A111840F566572696679536967 6E6174757265A20382010
030288014446966666572656E7469616C4964656E74697479A10B8509444944557064617465A
2038101FF3029800D43727970746F67726170686963A113841156657269667943657274696666
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182049BA1820497A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182043A3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303031434537463930313338323031433841313832303143343830303130313
313130344436313645363734353738373436353732364536313643343336353723734383230
373238383143313137303330303033413330323830303041343832303139453330314338303
044343337323739373037343646363737323631373036383639363341313036383430343533336
```

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393637364541323033383230313030333031463830304434313735373436383646373236393741363137343639366436454131303938363037343134333443344336393733373441323033383230313030333032303830304434333732373937303734364636373732363137303638363936334131304138343038343436353633363937303638363537324132303338323031303033303233383032303130303330323138303044343137353734363836373236393741363137343639366436454131304238363039343134333443344336393636373941323033383130314646333032313830304434333732373937303734364636373732363137303638363936334131304238343039343736353734353236313645363437343639366436373941323033383130314646333032373830304434333732373937303734364636373732363137303638363936334131313138343046353636353732363936363739353336393637343736353732363541323033383130314646333032313830304434333732373937303734364636373732363137303638363936334131313138343046353636353732363936363739353336393637343736353732373436393636363936353732373436393636363936333631373436354132303338313031464630303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82044AA182043E8082043A3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
```

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```
616E646C653E0A202020203C496E707574415044553E303043323030303030303031434537463
393031333832303143384131383230314334383030313031383131303444363136453637343
373837343635373236453631364334333635373237343832303732383831433131373033303
303341333032383030304134383230313945333031433830304434333732373937303734364
363737323631373036383639363341313036383430343533336393637364541323033383231
303033301463830304434313735373436383646373236393741363137343639364636454131
303938363037343134333443344334363937333734413230333831303146463330323038303044
343337323739373037343646363737323631373036383639363341313041383430383435364536333639373036383
363537324132303338323031303033303231383030443431373537343638364637323639374
363137343639364636454131303238363039343134333443344436463634363936363739413
303338313031466333032313830304434333732373937303734364636373732363137303638
363936334131304238343039343736353734353236313645363436463644413230333832303
303033303235383031343434363936363636363537323635364537343639363136433439363
363536453734363937343739413130383835303634343439343434373635373443230333831
303146463330323738303044343337323739373037343646363737323631373638363936333
413131313834304635363635373236393636373935333639363736453631373437353732363
413230333832303130303330323838303134343436393636363636353732363536453734363
363136433439363436353645373436393734373941313042383530393434343943435353730
363436313734363541323033383130314646333032393830304434333732373937303734364
363737323631373036383639363341313133383431313536363535323639363673934333635
373237343639363636393633363137343635413230333832303130303330324538303134343
436393636363636353732363536453734363936313643343936343635364537343639373437
413131313835304634343439343434313735373436383635364537343639363336313734363
413230333831303146463030303C2F496E707574415044553E0A3C2F6E73323A5472616E73
6D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CE7F90138201C8A18201C480010181104D616E6745787465726
E616C43657274820728881C117030003A3028000A482019E301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686
572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2038
201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3
021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025801
4446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF30278
00D43727970746F67726170686963A111840F566572696679536967 6E6174757265A20382010
0302880144469666666572656E7469616C4964656E74697479A10B85094449445570646174 65A
2038101FF3029800D43727970746F67726170686963A113841156657269667943657274696666
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F90138201C8A18201C480010181104D616E6745787465
726E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261
70686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607
41434C4C697374A2038101FF3020800D43727970746F67726170686963A10A840844656369970
686572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2
038201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101
FF3021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025
80144469</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000CF66666572656E7469616C4964656E74697479A108850644
4944476574A2038101FF3027800D43727970746F67726170686963A111840F56657269667953
69676E6174757265A203820100302880144469666666572656E7469616C4964656E74697479A1
0B85094449445570646174 65A2038101FF3029800D43727970746F67726170686963A1138411
566572696679436572746966696361746 5A203820100302E80144469666666572656E7469616C
4964656E74697479A111850F44494441757468656E746963617465A2038101FF00</encodedD
ata>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D6122E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>203</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D22757269736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Create the management
external certificate DID. The management
     external certificate DID is used to provide an external party with full
privileges. First create the DIDs then
     restrict the DID modification permissions. The modification access
rules refer to the Internal and External DIDs.
     This DID is actually a Simple Assertion DID, not an Client Application
External Authenticate with Certificates DID.
     This simplifies the test case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the internal certificate
DID. Set the DID update access rule to first
     require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8186A1818380010181154449464645524 54E5449414C2D4944
454E54495459A20E810C496E7465726E616C43657274831446966666572656E7469616C4964
656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616C436572
74A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</enco
dedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008B7F901F8186A1818380010181154449464645524 54E5449414
C2D4944454E54495459A20E810C496E7465726E616C43657274831444696666657 2656E74696
16C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616
C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201F
F0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820215A1820211A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818201B43C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030303842374639303146383138364131383138333830303130313831313534
343439343634363435353234353445353434393431344332443439343434353445353434393 5
343539413230453831304334393645373436353732364536313643343336353732373438333 1
343434363936363636363537323635364537343639363136433439363436353645373436393 7
343739413430423835303934343439343435353730363436313734363541353334413433324 1
303135383030433439364537343635373236453631364334333635373237344131303238303 0
303832303146464130313938303130344436313645363734355373837343635372364536313 6
433433363537323734413130323830303038323031464630303030 3C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201C4A18201B8808201B43C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038423746
393031463831383641313831383333830303130313831313534343439343634363435353234 35
```

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```
3445353434393431344332443439343435344535343439353435394132304538313043343936453736353732363536453734363936313643343936343635364537343639373437394134304238353039343436353537303634363137343635413533344134333241303135383030433439364537343635373236453631364334333635373237343831333134343436393636363636353732363536453734363936313643343936343635364537343639373437394134304238353039343436313645363734353738373436353732364536313643343336353732373441313032383030303832303146464130313938303130344436313645363734353738373436353732364536313643343336353732373441313032383030303832303146463030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer. Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008B7F901F8186A1818380010181154449464645524 54E5449414C2D4944454E54495459A20E810C496E7465726E616C436572748314446966666572656E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200008B7F901F8186A1818380010181154449464645524 54E5449414C2D4944454E54495459A20E810C496E7465726E616C436572748314446966666572656E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F757470757441504455453E374639303230303838323036343135303439354634463442393030
30303C2F4F757470757441504455453E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303230303838323036343 1
353034393546344634423934303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the internal certificate DID. Set
     the DID update access rule to first require authentication of the
internal and external management certificate DIDs.</description>
```

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```
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the internal certificate
DID. Set the ACL Modify access rule to first
     require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C80010181154449464645524 54E5449414C2D4944454E
54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000000827F901F7EA17C80010181154449464645524 54E5449414C2D4
944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008
201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820203A18201FFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201A23C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
```

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```
323030303030303030383237463930314637454131374338303031303138313135343434393436343634353532343534453534343934313443324434393434343534453534343935343539413230453831304334393645373436353732364536313643343336353732373443131303238303030383230314646413031393830313034443632303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201B2A18201A6808201A23C6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038323746393031463745413137433383030313031383131353434343934363436343535323435344535343934313443324434393434343534453534343935343539413230453831304334393645373436353732364536313643343336353732373443131303238303030383230314646413031393830313034443632303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
```

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```
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000827F901F7EA17C80010181154449464645524454E5449414C2D4
944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008
201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000827F901F7EA17C80010181154449464645524454E5449414C
2D4944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A617469
6F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedDat
a>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D6172746361726453696465 2D5443
2D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
```

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```
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423933030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F9020088206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the internal certificate DID. Set
     the ACL Modify access rule to first require authentication of the
internal and external management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F9020088206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the management external
certificate DID. Set the DID update access
```

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```
      rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F818AA1818780010181154449464645524 54E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C436572748314446966666572656E7469
616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008F7F901F818AA1818780010181154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C436572748314446966666572656
56E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E746
5726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182021DA1820219A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201BC3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303846374639303146383138414131383138373830303130313831313534
3434393436343634353532343534453534343934313443324434393434343534453534343935
3435394132313238313130344436313645363734353738373436353732364536313643343336
3537323734383331343434363936363636363537323635364537343639363136433439363436
3536453734363937343739413430423835303934343439343435353730363436313734363541
3533344134333241303135383030433439364537343635373236456361364334333635373237
3441313032383030303832303146464130313938303130344436313645363734353738373436
3537323645636136433433363537323734413130323830303038323031464630303030 3C2F49
6E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
```


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```
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201CCA18201C0808201BC3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038463746
393031463831384141313831383837383030313031383131353434343934363436343535323435
344535343439343134433244343934343435344535343439353435394132313233831313034 44
363136453637343537383734363537323645363136433433363537327374383331343434363 9
363636363537323635364537343639363136433439363436353645373436393734373941 34
304238353039343434393434353537303634363137343635413533344134333241303135383 0
304334393645373436353732364536313643343336353732373441313032383030303832303 1
464641303139383031303444363136453637343537383734363537323645363136433433363 5
373237344131303238303030383230314646303030303C2F496E707574415044553E0A3C2F6E
73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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```
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008F7F901F818AA1818780010181154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C436572748314446966666572 6
56E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E746
5726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200008F7F901F818AA181878001018115444946464552454E5449
414C2D4944454E54495459A21281104D616E6745787465726E616C436572748314446966666 5
72656E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D69745265737065F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265737065F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E374639303230303838323036343 1
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the management external
      certificate DID. Set the DID update access rule to first require
authentication of the internal and external
      management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the management external
certificate DID. Set the ACL modify access
      rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8183A1818080010181154449464645524 54E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C43657274830D417574686F72697A6174
696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A102
```

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```
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</encodedDat
a>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000887F901F8183A1818080010181154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C43657274830D417574686F726
97A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182020FA182020BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201AE3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030303838374639303146383138334131383138303830303130313831313534
343439343634363435353234353445353434393431344332443439343434353445353434393935
343539413231323831313034443631364536373435373837343635373236453631364336433336
353732373438333044343137353734363836463732363937413631373436393646364541343 0
423836303934313433344334434436463634363936373941353334413433324130313538303 0
433439364537343635373236453631364334333635373237344131303238303030383230314 6
464130313938303130344436313645363734353738373436353732364536313643343336353 7
323734413130323830303038323031464630303030 3C2F496E707574415044553E0A3C2F6E73
323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```


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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201BEA18201B2808201AE3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504455 3E3030433230303030303030303838383746
393031463831383341313831383138303830303130313831313534343439343634363435353234 35
344553434393431344332443439343434353445353443393534353941323132383131303444
363136453637343537383734363537323645363136433433363537323734383330443431373 5
373436383646373236393741383137343639364636454134304238363039343134333443344 4
364636343639363673941353344134333241303135383030433439364537343635373236 45
363136433433363537323734413130323830303038323031464641303139383031303443631
364536373435373837343635373236453631364334333635373237344131303238303030383 2
303146463030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000887F901F8183A1818080010181154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C43657274830D417574686F726
97A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000887F901F8183A1818080010181154449464645524 54E5449
414C2D4944454E54495459A21281104D616E6745787465726E616C43657274830D417574686F
72697A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF00
</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>265</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
```

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```
526573756C743E0A202020203C4F757470757441504455 3E37463930323030383830363431
353034393546344634423930303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the management external
     certificate DID. Set the ACL modify access rule to first require
authentication of the internal and external
     management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Card Holder PIN DID. The Card Holder is required
to enter a PIN to authenticate this DID. This
     DID is actually a Simple Assertion DID, not an Client-Application
Secure PIN Compare Authentication DID. This
     simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382021FA182021B8001018105434850494E82072881C1170300
03A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA2038201
00301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D
43727970746F67726170686963A10A840844656369706865 72A2038201003020800D43727970
746F67726170686963A10A8408456E636970686572A2038201003021800D43727970746F6772
6170686963A10B840947657452616E646F6DA2038201003025801444696666657265 6E746961
6C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F67726170
686963A111840F5665726966795369676E6174757265A2038201003029800D43727970746F67
726170686963A113841156657269667943657274696669636174 65A203820100302E80144469
```

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```
66666572656E7469616C4964656E74697479A111850F44494441757468656E746963617465A2
038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432
A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E61
6C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479A10B
85094449445570646174 65A234A432A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002257F901382021FA182021B8010181054348504 94E82072881C
117030003A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA
203820100301F800D417574686F72697A6174696F6EA10B860741434C4C697374A2038101FF3
020800D43727970746F67726170686963A10A84084456369706865 72A2038201003020800D4
3727970746F67726170686963A10A8408456E6369706865 72A2038201003021800D437279707
46F67726170686963A10B840947657452616E646F6DA2038201003025801444696666657265
6E7469616C4964656E74697479A10885064449444476574A2038101FF3027800D43727970746F6
7726170686963A111840F5665726966795369676E6174757265A2038201003029800D4372797
0746F67726170686963A113841156657269667943657274696669636361746 5A203820100302E8
014446966666572656E7469616C4964656E74697479A111850F44494441757468656E7469636
17465A2038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A
234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746
5726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697
479A10B85094449445570646174 65A234A432A015800C496E7465726E616C43657274A102800
08201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU
>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820549A1820545A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818204E83C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
```

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```
32303030303030303232353746393031333832303231464131383230323142383030313031383
13130353433343835303439344538323037323838314331313730333030303033413330323830
30413438323032303033303143383030443433373237393730373436466363737323631373036
38363936334131303638343034353336393637364541323033383230313030333031463830304
44343137353734363836466373236393741363137343639366466364541313039383630373431
33344334433639373337344132303338313031464633303230383030443433337323739373037
34364636373732363137303638363936334131304138343038343436353633363937303638363
35373241323033383230313030333032303830304434333732373937303734364636373732363
13730363836393633413130413834303834353645363336393730363836353732413230333838
32303130303330323138303044343337323739373037343646363737323631373036386393636
33413130423834303934373635373435323631364536343646364644132303338323031303033
30323538303134343436393636363636353732363536453734363936313643343936343635363
45373436393734373941313038383530363434343934343437363537344132303338313031463
46333032373830304434333732373937303734364636373732363137303638363936334131313
31383430463536363537323639363637393533363936373645363137343735373236354132303
33383230313030333032393830304434333732373937303734364636373732363137303638363
39363341313133383431313536363537323639363637393433336353732373436393636363936
33363137343635413230333832303130303330324538303134343436393636363635373236353
63645373436393631364334393634363536453734363937343739413131313835304634343439
39343434313735373436383635364537343639363336313734363541323033383130314646333
30353238303044343137353734363836463732363937413631373436393646364541313042383
36303934313433344334443646363436393636373941323334413433324130313538303043343
39364537343635373236453631364334333635373237344313032383030303832303146464130
30313938303130344436313645363734353738373436353732364536313643343336353732373
34413130323830303038323031464633303539383031343434363936363636363537323635363
45373436393631364334393634363536453734363937343739413130423835303934343439343
34353537303634363137343635413233344134332413031353830304334393645373436353737
32364536313643343336353732373441313032383030303832303146464130313938303130343
44363136453637343537383734363537323645363136433433363537323734413130323830303
30383230314646303030303C2F496E7057441504455 3E0A3C2F6E73323A5472616E736D6974
3E</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8204F8A18204EC808204E83C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303232353746
393031333832303231464131383230323142383030313031383130353433343835303439344 5
383230373238383143313137303330303033413330323830303041343832303230330333031 43
383030443433373237393730373436466363737323631373036383639363341313036383 43034
353336393637364541323033383230313030333031463830304434313735373436383646373 2
363937413631373436393646366454131303938363037343134333443344334433693737337344132
303338313031464633302303830304434333732373937303734364636373732363137303638
363936334131304138343038343436353633363937303638363537324132303338323031303033 0
333032303830304434333732373937303734364636373732363137303638363936334131304 1
383430383435364536333639373036383635373241323033383230313030333023138303044
343337323739373037343646363737323631373036383639363341313042383430393437363 5
373435323631364536343646364644132303338323031303033032353830313434343693636
363636353732363536453734363936313643343936343635364537343639373437394131303 8
383530363434343934343437363537344132303338313031464633303237383030443433373 2
373937303734364636373732363137303638363936334131313133834304635363635373239
363637393533363936373645363137343735373236354132033383230313030333032393830
304434333732373937303734364636373732363137303638363936334131313333834313135 6
363537323639363637393433363537323734363936353039363336313734363541323033383 2
303130303330324538303134343436393636363633537323635364537343639363136433439
363436353645373436393734373941313131383530463434343934343431373537343638363 5
364537343639363336313734363541323033383130314646333035323830304434313735373 4
363836463732363937413631373436393646364541313042383630393431343334433444364 6
363436393636373941323334413433324130313538303043343936453734363537323645363136433433336353732
373441313032383030303832303146464130313938303130344436313645363734353738373 4
363537323645363136433433363537323734413130323830303038323031464630303030 3C2F
496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002257F901382021FA182021B8001018105434850494E82072881C
```

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117030003A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA
203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3
020800D43727970746F67726170686963A10A840844656369706865 72A2038201003020800D4
3727970746F67726170686963A10A8408456E636970686572A2038201003021800D437279707
46F67726170686963A10B840947657452616E646F6DA203820100302580144469666666572656
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7726170686963A111840F566572696679536967 6E6174757265A2038201003029800D4372797
0746F67726170686963A113841156657269667943657274696669636174 65A203820100302E8
014446966666572656E7469616C4964656E74697479A111850F4449444175746865 6E7469636
17465A2038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A
234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746
5726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697
479A10B85094449445570646174 65A234A432A015800C496E7465726E616C43657274A102800
08201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU
>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F901382021FA182021B8001018105434850494E820728
81C117030003A3028000A4820200301C800D43727970746F67726170686963A1068404536967
6EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101
FF3020800D43727970746F67726170686963A10A840844656369706865 72A203820100302080
0D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D437279
70746F67726170686963A10B840947657452616E646F6DA203820100302580144469666666572
656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D4372797074
6F677261</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF70686963A111840F566572696679536967 6E6174757265
A2038201003029800D43727970746F67726170686963A113841156657269667943657274696 6
6963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F
4449444175746865E746963617465A2038101FF3052800D417574686F72697A6174696F6EA1
0B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201
FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966666572
656E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E74
65726E61</encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000276C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A737464313A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>288</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E3746393031343038383230363431
353034393546344634423934303030303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F9014088206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Card Holder PIN
DID. The Card Holder is required to enter a
     PIN to authenticate this DID. This DID is actually a Simple Assertion
DID, not an Client-Application Secure PIN
     Compare Authentication DID. This simplifies the test
case.</description>
  <encodedData type="xs:hexBinary">7F9014088206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Create the Alpha External Certificate DID. This DID is
actually a Simple Assertion DID, not an Client
     Application External Authenticate with Certificates DID. This
simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382022BA18202278001018111416C706861457874657265726E616C
4365727482072881C117030003A3028000A4820200301C800D43727970746F67726170686963
A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A2
038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
3021800D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580
1444696666657265 6E7469616C4964656E74697479A10885064449444765 74A2038101FF3027
800D43727970746F67726170686963A111840F5665726966795369676E6174757265A2038201
003029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B860941
434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF3059801444696666657265 6E7469
616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002317F901382022BA18202278001018111416C706861457874657
26E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F6772617
0686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA10986074
1434C4C697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706
86572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A20
3820100 3021800D43727970746F67726170686963A10B840947657452616E646F6DA20382010
0302580144469666666572656E7469616C4964656E74697479A10885064449444765 74A203810
1FF3027800D43727970746F67726170686963A111840F5665726966795369676E6174757265A
2038201003029800D43727970746F67726170686963A113841156657269667943657274696666
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10
B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201F
FA01980104D616E6745787465726E616C43657274A10280008201FF3059801444696666657265
56E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E746
5726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>293</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820561A182055DA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818205003C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E7075744150445553E303043
32303030303030303033313746393031333832303232424131383230323237383031303138
31313134313643373036383631343537383734363537323645363136433433363537323734383
32303732383831433131373033303030303341333032383030304134383230323030333031433
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33363936373645413230333832303130303330314638303044343137353734363836463732363
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34353236313645363436463644413230333832303130303330323538303134343436393636363
36363537323635364537343639363136433439363436353645373436393734373941313038383
35303634343439343434373635373441323033383130314646333032373830304434333732373
39373037343646363737323631373036383639363341313131383430463536363537323639363
36373935333639363736453631373437353732363541323033383230313030333032313830304434
44343337323739373037343646363737323631373036383639363341313133383431313536363
35373236393636373934333635373237343639363636393633361373436354132303338323031
31303033303245383031343434363936363636363537323635364537343639363136433439363
34363536453734363937343739413131313835304634343439343434313735373436386363536
45373436393633363137343635413230333831303146463330353238303044343137353734363
38364637323639374136313734363936463645413130423836303934313433344334444364636
34363936363739413233344134333241303135383030433439364537343635373236453631363
43343336353732373441313032383030303832303146464130313938303130344436313645363
37343537383734363537323645363136433433363537323734413130323830303038323031464
46333035393830313434343639363636363635373236353645373436393631364334393634363
35364537343639373437394131304238353039343434393434353537303634363137343634154
32333441343332413031353830304334393645373436353732364536313643343336353732373
34413130323830303038323031464641303139383031303444363136453637343537383734363
35373236453631364334333635373237344131303238303030383230314646303030303C2F49
6E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820510A1820504808205003C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504455 3E3030433230303030303030303233313746
393031333832303232424131383230323237383030313031383131313431364337303638363 1
343537383734363537323645363136433433363537323734383230373238383143313137303 3
303030334133303238303030413438323032303033303143383030443433373237393730373 4
364636373732363137303638363936334131303638343034353336393637364541323033383 2
303130303330314638303044343137353734363836463732363937413631373436393646364 5
413130393836303734313433344334433639373337344132303338313031464633303230383 0
304434333732373937303734364636373732363137303638363936334131304138343038343 4
363536333639373036383635373241323033383230313030333032303830304434333732373 9
373037343646363737323631373036383639363341313041383430383435364536333639373 0
363836353732413230333832303130303330323138303044343337323739373037343646363 7
373236313730363836393633413130423834303934373635373435323631364536343646364 4
413230333832303130303330235830311343434363936363636363537323635364537343639
363136433439363436353645373436393734373941313038383530363434343934343437363 5
373441323033383130314646333032373830304434333732373937303734364636373732363 1
373036383639363341313131383430463536363537323639363637393533363936373645363 1
373437353732363541323033383230313030333032393830304434333732373937303734364 6
363737323631373036383639363341313133383431313536363537323639363637393433363 5
373237343639363636393633363137343635413230333832303130303330324538303134343 4
363936363636363537323635364537343639363136433439363436353645373436393734373 9
413131313835304634343439343434313735373436383635364537343639363336313734363 5
413230333831303146463330353238303044343137353734363836463732363937413631373 4
363936463645413130423836303934313433344334443646363436393636373941323334413 4
333241303135383030433439366453734363537323645363136433433363537323734413130 2
383030303832303146464130313938303130344436313645363734353738373436353732364 5
363136433433363537323734413130323830303038323031464633303539383031343443639
363636363635373236353645373436393631364334393634363536453734363937343739413 1
304238353039343434393434353537303634363137343635413233344134333241303135383 0
304334393645373436353732364536313643343336353732373441313032383030303832303 1
464641303139383031303444363136453637343537383734363537323645363136433433363 5
373237344131303238303030383230314646303030303C2F496E707574415044553E0A3C2F6E
73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002317F901382022BA18202278001018111416C706861457874657
26E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F6772617
0686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA10986074
1434C4C697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706
86572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A20
38201003021800D43727970746F67726170686963A10B84094765745261 6E646F6DA20382010
0302580144469666665726 56E7469616C4964656E74697479A1088506444944476574A203810
1FF3027800D43727970746F67726170686963A111840F566572696795369676E6174757265A
2038201003029800D43727970746F67726170686963A113841156657269667943657274696666
963617465A203820100302E80144469666665726 56E746961C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10
B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201F
FA01980104D616E6745787465726E616C43657274A10280008201FF3059801444696666657726
56E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E746
5726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F901382022BA18202278001018111416C706861457874
65726E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F6772
6170686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA10986
0741434C4C697374A2038101FF3020800D43727970746F67726170686963A10A840844656369
70686572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572
A2038201003021800D43727970746F67726170686963A10B84094765745261 6E646F6DA20382
0100302580144469666665726 56E7469616C4964656E74697479A1088506444944476574A203
8101FF30</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF27800D43727970746F67726170686963A111840F566572
6966795369676E6174757265A2038201003029800D43727970746F67726170686963A1138411
566572696679436572746966696361746 5A20382010302E80144469666666572656E7469616C
4964656E74697479A111850F4449444175746865 6E746963617465A2038101FF3052800D4175
74686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3059801444696666665726 56E7469616C4964656E74697479A10B85094449445570646174
65A234A4</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200003332A015800C496E7465726E616C43657274A10280008201
FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646452D5443
2D536573736F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61233E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374639303134303838323036343135303439354634463442393030
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746393031343038383230363431
353034393546344634423930303032F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Alpha External
Certificate DID. This DID is actually a
     Simple Assertion DID, not an Client Application External Authenticate
with Certificates DID. This simplifies the test
     case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Beta External Certificate DID. This DID is
actually a Simple Assertion DID, not an Client
     Application External Authenticate with Certificates DID. This
simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382022AA18202268001018110426574614578746572 6E616C43
65727482072881C117030003A3028000A4820200301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865 72A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D43727970746F67726170686963A10B840947657452616E646F6DA20382010030258014
446966666572656E7469616C4964656E74697479A10850644494447657 4A2038101FF302780
0D43727970746F67726170686963A111840F566572696679536967 6E6174757265A203820100
3029800D43727970746F67726170686963A113841156657269667943657274696669636361746 5
A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4449444175
7468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B86094143
4C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF3059801444696666657 2656E746961
6C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
</encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002307F901382022AA18202268001018110426574614578746572 6
E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686
572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2038
201003021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003
```

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```
02580144469666666572656E7469616C4964656E74697479A10885064449444476574A2038101F
F3027800D43727970746F6772617068696 3A111840F566572696679536967 6E6174757265A20
38201003029800D43727970746F6772617068696 3A113841156657269667943657274696669 6
3617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444
94441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B8
60941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA
01980104D616E6745787465726E616C43657274A10280008201FF30598014446966666572656
E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E74657
26E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800
08201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182055FA182055BA057801C436C69656E7441707053696 4652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E
6E6574821C436C69656E7441707053696 4652D54432D53657373696F6E49442D32818204FE3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303233303746393033333832303232414131383230322363830303130313 8
31313034323635373436313435373837343635373236453631364334333635373237343832 30
37323838314331313730333030303033413330323830303041343832303230303330314338303 0
44343337323739373037343646363737323631373036383639363341313036383430343533 36
39363736454132303338323031303033303146383030443431373537343638364636732363937
41363137343639364636454131303938363037343134333443344334433693733373441323033 38
31303146463330323038303044343337323739373037343646363737323631373036383639 36
33413130413834303834343635363336393730363836353732413230333832303130303330 32
30383030443433373237393730373436463637373236313730363836393633413130413834303
38343536453633639373036383635373241323033383230313030333032313830304434333 7
32373937303734364636373732363137303638363936334131304238343039343736353734 35
32363136453634364636444132303338323031303033303235383031343434363936363636 36
35373236353645373436393631364334393634363536453734363937343739413130383835 30
36343434393434343736353734413230333831303146463330323738303044343337323739 37
30373436463637373236313730363836393633413131313834304635363635373236391363637
39353336393637364536313734373537323635413230333832303130303330323938303044 34
33373237393730373436463637373236313730363836393633413131313338343131353636353 7
32363936363739343336353732373436393636363936333631373436354132303338323031 30
30333032453830313434343639363636363635373236353645373436393631364334393634 36
35364537343639373437394131313138353046343434393434343137353734363836353645 37
34363936333631373436354132303338313031464633303532383030443431373537343638 36
46373236393741363137343639364636454131304238363039343134333443344436463634 36
39363637394132333441343332413031353830304334393645373436353732364536313643 34
33363537323734413130323830303038323031464641303139383031303444363136453637 34
35373837343635373236453631364334333635373237344131303238303030383231464633
30353938303134343436393636363636353732363536453734363936313643343936346353 6
45373436393734373941313042383530393434343934343535373036343631373436354132 33
34413433324130313538303043343936453734363537323645363136433433363537323734 41
31303238303030383230314646413031393830313034443631364536373435373837343635 37
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3236453631364334333635373237344131303238303030383230314646303030303C2F496E70
7574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82050EA1820502808204FE3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303233303746
393031333832303332414131383230322363830303130313831313034323635373436313435
373837343635323E3C2364536313643343336353732373438323037323838314331313730333030
303341333032383030304134383230322303033303143383030443433373237393730373437343646
363737323631373036383639363341313036383430343533363936373645413230333832303131
303033303146383030443431373537343638364637323639374136313734363936463645413 1
303938363037343134333443344336393733373441323033383130314646333032303830304 4
343337323739373037343646363737323631373036383639363341313041383430383434363 5
363336393730363836353732413230333832303130303330323038303044343337323739373 0
373436463637373236313730363836393633413130413834303834353645363336393730363 8
363537324132303338323031303033303231383030443433373237393730373436463637373 2
363137303638363936334131304238343039343736353734353236313645363436463644413 2
303338323031303033303235383031343434363936363636363537323635364537343639363 1
364334393634363536453734363937343739413130383835303634343439343434373635373 4
413230333831303146463330323738303044343337323739373037343646363737323631373 0
363836393633413131313834304635363635373236393636373935333639363736453631373 4
373537323635413230333832303130303330323938303044343337323739373037343646363 7
373236313730363836393633413131313338343131353636353732363936367393433363537 2
373436393636363936333631373436354132303338323031303033303245383031343434363 9
363636363635373236353645373436393631364334393634363536453734363937343739413 1
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313138353046343434393434343137353734363836353645373436393633363137343635413230
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364636454131304238363039343134333443344436463634363936363739413233344134333241
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413031393830313034443631364536373435373837343635373236453631364334333633537332
373441313032383030303832303146463030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000023307F901382022AA18202268001018110426574614578746572
E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F6772617068696A10A84084465636970686
572A2038201003020800D43727970746F6772617068696A10A8408456E636970686572A2038
201003021800D43727970746F6772617068696A10B840947657452616E646F6DA2038201003
025801444696666657265E7469616C4964656E74697479A1088506444944476574A2038101F
F3027800D43727970746F6772617068696A111840F566572696679536967 6E6174757265A20
38201003029800D43727970746F6772617068696A113841156657269667943657274696669696
3617465A2038201003 02E80144469666666572656E7469616C4964656E74697479A111850F444
94441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B8
60941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA
01980104D616E6745787465726E616C43657274A10280008201FF3059801444696666657265
E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E74657
26E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800
08201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
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      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F901382022AA18202268001018110426574614578746572
726E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F677261
70686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607
41434C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970
686572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2
038201003021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201
00302580144469666666572656E7469616C4964656E74697479A1088506444944476574A20381
01FF3027</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF800D43727970746F67726170686963A111840F56657269
66795369676E6174757265A2038201003029800D43727970746F67726170686963A113841156
65726966794365727469696963617465A203820100302E80144469666666572656E7469616C49
64656E74697479A111850F44494441757468656E746963617465A2038101FF3052800D417574
686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF3059801444694666666572656E7469616C4964656E74697479A10B85094449445570646176
5A234A432</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>18</annexAId>
```


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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C2000032A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
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73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E7365207865D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Beta External
Certificate DID. This DID is actually a
     Simple Assertion DID, not an Client Application External Authenticate
with Certificates DID. This simplifies the test
     case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceList access rule of the
A00000041000010001 application. Remove the
     ability to list card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F58A15680010181104341524 42D4150504C49434154494F4EA2
0B8209A000000410000100 01830F436172644170706C69636174696F6EA41C821A4361726441
70706C69636174696F6E536572766963654C697374A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005C7F901F58A15680010181104341524 42D4150504C494341544
94F4EA20B8209A000000410000100 01830F436172644170706C69636174696F6EA41C821A436
172644170706C69636174696F6E536572766963654C697374A5038201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201B7A18201B3A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201563C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504455303043
323030303030303030303543374639303146353841313536383030313031383131303433343135
323434324434313530353034433439343334313534343934463445413230423823039413030
303030303431303030303031303030313833304634333631373236343431373037303643363936
333631373436393646364541343143383231413433363137323634343137303730364336393 6
333631373436393646364535333635373237363639363336353443363937333734413530333 8
323031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303035433746
393031463538413131353638303031303138313130343334313532343432443431353035303443
343934333431353434393446344541323042383230394130303030303034313030303031303030
303138333046343336313732363434313730373036433639363336313734363936436454134
314338323141343336313732363434313730373036433639363336313734363936436453533
363537323736363936333635344336393733373441353033383230313030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005C7F901F58A1568001018110434152442D4150504C494341544
94F4EA20B8209A000000410000100001830F436172644170706C69636174696F6EA41C821A436
172644170706C69636174696F6E536572766963654C697374A5038201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200005C7F901F58A1568001018110434152442D4150504C494341
54494F4EA20B8209A000000410000100001830F436172644170706C69636174696F6EA41C821A
436172644170706C69636174696F6E536572766963654C697374A50382010000</encodedDat
a>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D6172746361726453696465 2D5443
2D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A20202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>19</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

        <OutputAPDU>7F9020088206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceList access rule of the
```

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```
      A00000041000010001 application. Remove the ability to list card
applications services.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceCreate access rule of the
A00000041000010001 application. Remove the
      ability to create card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F5AA1588001018110434152442D4150504C494341544494F4EA2
0B8209A00000041000010001830F436172644170706C69636174696F6EA41E821C4361726441
70706C69636174696F6E536572766963654372656174 65A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005F7F901F5AA1588001018110434152442D4150504C494341544
94F4EA20B8209A00000041000010001830F436172644170706C69636174696F6EA41E821C436
172644170706C69636174696F6E536572766963654372656174 65A5038201000000</InputAP
DU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201BBA18201B7A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182015A3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
```

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```
3230303030303030303035453746393031463541413135383830303130313831313034333431353234343244343135303530344334393433343135343439344634454132304238323039413030303030303431303030303031303030313833304634333631373236343431373037303643363936333631373436393646364541343145383231433433363137323634343137303730364336393646364541343145383231433433363137323634343137303730364336393646364535333635373237363639363336353433373236353631373436354135303338323031303030303033C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82016AA182015E8082015A3C6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035453746393031463541413135383830303130313831313034333431353234343244343135303530344334393433343135343439344634454132304238323039413030303030303431303030303031303030313833304634333631373236343431373037303643363936333631373436393646364541343145383231433433363137323634343137303730364336393646364535333635373237363639363336353433373236353631373436354135303338323031303030303033C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005E7F901F5AA1588001018110434152442D4150504C494341544
94F4EA20B8209A0000004100001000183 0F436172644170706C69636174696F6EA41E821C436
172644170706C69636174696F6E536572766963654372656174 65A5038201000000</InputAP
DU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200005E7F901F5AA1588001018110434152442D4150504C494341
54494F4EA20B8209A0000004100001000 0830F436172644170706C69636174696F6EA41E821C
436172644170706C69636174696F6E536572766963654372656174 65A50382010000</encode
dData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546346344634239
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceCreate access rule of the
      A00000041000010001 application. Remove the ability to create card
applications services.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceLoad access rule of the
A00000041000010001 application. Remove the
      ability to load card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F58A1568001018110434152442D4150504C49434154494F4EA2
0B8209A00000041000010001830F436172644170706C69636174696F6EA41C821A4361726441
70706C69636174696F6E536572766963654C6F6164A503820100</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>364</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005C7F901F58A15680010181104341524420D4150504C494341544
94F4EA20B8209A000000410000100018301F436172644170706C69636174696F6EA41C821A436
172644170706C69636174696F6E536572766963654C6F6164A5038201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201B7A18201B3A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726420D686F73742E
6E6574821C436C69656E744170705369646520D54432D53657373696F6E49442D32818201563C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A23437323A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030354337463930314635384131353638303031303138313130343334313
5323434324434313530353034433439343343135343439344634454132304238323039413030
303030303431303030303031303030313833304634333631373236343431373037303643363936
333631373436393646364541343143383231414333631373236343431373037303643363936
333631373436393646364535333635373237363639363336353443364636313634413530333
8323031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
```

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```
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035433746
393031463538413135363830303130313138313130343 43431353234343244343135303544 3
343934333431353434393446344541323042383230394130303030303034313030303031303030
303138333046343336313732363434313730373036433639363336313734363936436364541 34
314338323141343336313732363434313730373036433639363336313734363936436364535 33
363537323736363936333635344336463631363441353033383230313030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005C7F901F58A1568001018110434152442D4150504C494341544
94F4EA20B8209A0000004100001000183 0F436172644170706C69636174696F6EA41C821A436
172644170706C69636174696F6E536572766963654C6F6164A5038201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>21</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200005C7F901F58A1568001018110434152442D4150504C494341
54494F4EA20B8209A00000041000010001830F436172644170706C69636174696F6EA41C821A
436172644170706C69636174696F6E536572766963654C6F6164A50382010000</encodedDat
a>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

     <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
```

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```
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```


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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceLoad access rule of the
      A00000041000010001 application. Remove the ability to load card
applications services.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceDelete access rule of the
A00000041000010001 application. Remove the
      ability to delete card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F5AA1588001018110434152442D4150504C49434154494F4EA2
0B8209A00000041000010001830F436172644170706C69636174696F6EA41E821C4361726441
70706C69636174696F6E536572766963654656C657465A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005E7F901F5AA1588001018110434152442D4150504C494341544
94F4EA20B8209A00000041000010001830F436172644170706C69636174696F6EA41E821C436
172644170706C69636174696F6E536572766963654656C657465A5038201000000</InputAP
DU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201BBA18201B7A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182015A3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504455303043
323030303030303030303545374639303146354141313538383030313031383131303433343135
323434324434313530353034433439343334313534343934463445413230423823039413030
303030303431303030303031303030313833304634333631373236343431373037303643363936
333631373436393646364541343145383231433433363137323634343137303730364336393633
333631373436393646364535333635373237363639363336353434363536433634363534363541
353033383230313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D
69743E</encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82016AA182015E8082015A3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303035453746
393031463541413135383830303130313831313034333431353234343244343135303534 43
343934333431353434393446344541323042383230394130303030303034313030303031303 0
303138333046343336313732363434313730373036433639363336313734363936463644134
314538323143343336313732363434313730373036433639363336313734363936463645333
363537323736363936333635343436353643363537343635413530333832303130303030303 0
3C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</en
codedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005E7F901F5AA1588001018110434152442D4150504C494341544
94F4EA20B8209A00000041000010001830F436172644170706C69636174696F6EA41E821C436
172644170706C69636174696F6E536572766963654656C657465A5038201000000</InputAP
DU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200005E7F901F5AA1588001018110434152442D4150504C494341
54494F4EA20B8209A00000041000010001830F436172644170706C69636174696F6EA41E821C
436172644170706C69636174696F6E536572766963654656C657465A50382010000</encode
dData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>391</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceDelete access rule of the
     A00000041000010001 application. Remove the ability to delete card
applications services.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceDescribe access rule of the
A00000041000010001 application. Remove the
     ability to describe card applications.</description>
  <encodedData
type="xs:hexBinary">7F901F5CA15A8001018110434152442D4150504C494341544
0B8209A00000041000010001830F436172644170706C69636174696F6EA420821E4361726441
70706C69636174696F6E536572766963654465736372696265A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000607F901F5CA15A8001018110434152442D4150504C494341544
94F4EA20B8209A00000041000010001830F436172644170706C69636174696F6EA420821E436
172644170706C69636174696F6E536572766963654465736372696265A5038201000000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201BFA18201BBA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182015E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
```

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```
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030363037463930314635434131354138303031303138313130343334313 5
32343432443431353035303443343934333431353434393446344541323042383230394130303 0
30303030343130303030313030303138333046343336313732363434313730373036433639363 3
33363137343639364636454134323038323145343336313732363434313730373036433639363 3
33363137343639364636453533363537323736363936333635343436353733363337323639363 2
32363541353033383230313030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82016EA18201628082015E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303030363037746
393031463543413131354138303031303138313130343334313532343432443431353035303443
343934333431353434393446344541323042383230394130303030303030343130303030313030
303138333046343336313732363434313730373036433639363336313734363936463636454134
323038323145343336313732363434313730373036433639363336313734363936463636453533
363537323736363936333635343436353733363337323639363236354135303338323031303030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000607F901F5CA15A8001018110434152442D4150504C494341544
94F4EA20B8209A000000410000100018 30F436172644170706C69636174696F6EA420821E436
172644170706C69636174696F6E536572766963654465736372696265A5038201000000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000607F901F5CA15A8001018110434152442D4150504C494341
54494F4EA20B8209A000000410000100018 30F436172644170706C69636174696F6EA420821E
436172644170706C69636174696F6E536572766963654465736372696265A50382010000</en
codedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
```

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```
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E37463930323030383832303634313530343935463446344234393930
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303230303838323036343 1
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceDescribe access rule of the
     A0000041000010001 application. Remove the ability to describe card
applications.</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ExecuteAction access rule of the
A00000041000010001 application. Remove the ability to execute
     a generic action.</description>
  <encodedData
type="xs:hexBinary">7F901F4BA1498001018110434152442D4150504C49434154494F4EA2
```

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```
0B8209A000000410000100018 30F436172644170706C69636174696F6EA40F820D4578656375
7465416374696F6EA503820100</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004F7F901F4BA14980010181104341524 42D4150504C494341544
94F4EA20B8209A000000410000100018 30F436172644170706C69636174696F6EA40F820D457
865637574654163746 96F6EA5038201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019DA1820199A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013C3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D696563323A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E0303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030344637463930314634424131343938303031303138313130343334313 5
323434324434313530353034433439343334313534343934463445413230423823039413030
303030303431303030303130303031383330463433363137323634343137303730364336393 6
333631373436393646364541343046383230443435373836353633373537343635343136333 7
343639364636454135303338323031303030303030303C2F496E707574415044553E0A3C2F6E73
323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>415</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014CA18201408082013C6C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504455 3E3030433230303030303030303034463746
393031463442413134393830303130313138313130343334313532343432443431353035303443
343934333431353434393446344541323042382303941303030303030343130303030313030
303138333046343336313732363434313730373036433639363336313734363936436454134
304638323044343537383635363337353734363534313633373436393646364541353033383 2
303130303030303C2F496E70757441504455 3E0A3C2F6E73323A5472616E736D69743E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004F7F901F4BA14980010181104341524 2D4150504C494341544
94F4EA20B8209A0000004100001000183 0F436172644170706C69636174696F6EA40F820D457
865637574654163746 96F6EA5038201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
```

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```
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004F7F901F4BA14980010181104341524 42D4150504C494341
54494F4EA20B8209A0000004100001000 1830F436172644170706C69636174696F6EA40F820D
4578656375746541637469 6F6EA50382010000</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

     <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
```

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```
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ExecuteAction
access rule of the A00000041000010001
      application. Remove the ability to execute a generic
action.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetList access rule of the A00000041000010001
application: Internal AND (CHPIN OR
      MangExternalCert OR AlphaExternalCert OR
BetaExternalCert).</description>
  <encodedData
type="xs:hexBinary">7F901F81BEA181BB8001018110434152442D4150504C49434154494F
4EA20B8209A000000410000100018309 4E616D656444617461A40D830B446174615365744C69
7374A57DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850
494EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A
8011416C706861457874657 26E616C43657274A1028000820100A019801042657461457874657
726E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000C37F901F81BEA181BB8001018110434152442D4150504C49434
154494F4EA20B8209A000000410000100018309 4E616D656444617461A40D830B44617461536
5744C697374A57DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800
5434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FFA01A8011416C70686145787465726E616C43657274A1028000820100A0198010426574614
5787465726E616C43657274A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820285A1820281A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D61727463617264 2D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818202243C
6E73323A5472616E736D697420786D6C6E733A6E73323D22 5726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030433337463930314638314245413138314242383030313031383131303 4
3334313532343432443431353035303443343934333431353434393446344541323042383230
39413030303030303034313030303031303030313833303934453631364436353634343463137
34363141343044383330423434363137343631353336353734344336393733373441355374441
34374241303135383030433439364537343537323645363136433433336353723734413130
32383030303832303146464135363241303045383030353433334383530343934454131303238
30303038323031464641303139383031303444363136453637343537383734363537323646536
31364334333635373237344131303238303030383230314646413031413830313134313643337
30363836313435373837343635323645363136433433336353723734413130323830303038
32303130304130313938303130343236353734363134353738373436353732364536313643334
33363537323734413130323830303030383230313030303030303C2F496E707574415044553E0A
3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820234A1820228808202243C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E0303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303030433337 46
393031463831424541313831424238303031303138313130343331353234343243243134313530
353034433439343331353434393446344541323042383230394130303030303030343130303030
303130303031383330393445363136443635363434343631373436314134304438333042343434
363137343631353336353734343363937333734413537441343742413031353830304334 39
364537343635373236453631364334333635373237344130303238303030303832303146464135
363241303045383030353433343835303439344541313032383030303038323031464641303139
383031303444363136453637343537383734363537323645363136433433363537323734413 1
303238303030383230314646413031413830313134313643373036383631343537383734363 5
373236453631364334333635373237344131303238303030383230313030413031393830313 0
343236353734363134353738373436353732364536313643343336353732373441313032383 0
303038323031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69
743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

     <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000C37F901F81BEA181BB8001018110434152442D4150504C49434
154494F4EA20B8209A000000410000100018309 4E616D656444617461A40D830B44617461536
5744C697374A57DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800
5434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FFA01A8011416C70686145787465726E616C43657274A1028000820100A0198010426574614
5787465726E616C43657274A10280008201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>25</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000C37F901F81BEA181BB8001018110434152442D4150504C49
434154494F4EA20B8209A000000410000100018309 4E616D656444617461A40D830B44617461
5365744C697374A57DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
8201FFA01A8011416C70686145787465726E616C43657274A10280008201 00A0198010426574
6145787465726E616C43657274A102800082010000</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DataSetList
access rule of the A00000041000010001
      application: Internal AND (CHPIN OR MangExternalCert OR
AlphaExternalCert OR BetaExternalCert).</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetCreate access rule of the
A00000041000010001 application: Internal AND
      MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A1748001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000100183094E616D656444617461A40F830D4461746153657443726561
7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A1748001018110434152442D4150504C494341544
```

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```
94F4EA20B8209A0000004100001000183094E616D656444617461A40F830D446174615365744
37265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201F3A18201EFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172744636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201923C
6E73323A5472616E736D697420786D6C6E733A6E73323D227572E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61233E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303037413746393031463736413137343830303130313831313033433431
32343432443431353035303443343934333431353436393446344541323042383230394130
30303030343130303030313030303138333039344536313644363536343436313734363141
34304638333044343436313734363135333635373433337323635363137343635413533344
34333241303135383030433439364537343635373236453631364334333635373237344131
32383030303832303146464130313938303130344436313645363734353738373436353732
36453631364334333635373237344131303238303030383230314646303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```


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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201A2A1820196808201923C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303037413746
393031463736413137343830303130313138313130343334313532343432443431353035303443
343934333431353434393446344541323042383230394130303030303034313030303030313030
303138333039344536313644363536343434363137343631413430463833304434343631373434
363135333635373434333732363536313734363541353334413433324130313538303043343439
364537343635373236453631364334333635373237344131303238303030383230314646413030
313938303130344436313645363734353738373436353732364536313643343333635373237343
413130323830303038323031464630303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100001000183094E616D656444617461A40F830D446174615365744
37265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200007A7F901F76A17480010181104341524 42D4150504C494341
54494F4EA20B8209A0000004100001000183094E616D656444617461A40F830D446174615365
74437265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF00</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646452D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F737442E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303033C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>26</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DataSetCreate
access rule of the A00000041000010001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetDelete access rule of the
A00000041000010001 application: Internal AND
     MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A17480010181104341524424150504C49434154494F4EA2
0B8209A000000410000100018309 4E616D656444617461A40F830D446174615365744465 6C65
7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524424150504C494341544
94F4EA20B8209A000000410000100018309 4E616D656444617461A40F830D446174615365744
4656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F318201F3A18201EFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201923C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030374137463930314637364131373438303031303138313130343334313 5
323434324434313530353034433439343334313534343934463445413230423832303941303 0
303030303431303030303130303031383330393445363136443635363434343631373436314 1
343046383330443434363137343631353336353734343436353643363537343635413533344 1
343332413031353830304334393645373436353732364536313643343336353732373441313 0
323830303038323031464641303139383031303444363136453637343537383734363537323 6
453631364334333635373237344131303238303030383230314646303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D3281008201C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201A2A1820196808201923C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303037413746
393031463736413137343830303130313138313130343334313532343432443431353035303443
343934333431353434393446344541323042383230394130303030303034313030303030313030
303138333039344536313644363536343434363137343631413430463833304434343631373 4
363135333635373434343635364336365373436354135333441343332413031353830304334439
364537343635373236453631364334333635373237344131303238303030383230314646413 0
313938303130344436313645363734353738373436353732364536313643343336353732373 4
```

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```
413130323830303038323031464630303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100001000183094E616D656444617461A40F830D446174615365744
4656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200007A7F901F76A17480010181104341524 42D4150504C494341
54494F4EA20B8209A0000004100001000183094E616D656444617461A40F830D446174615365
7444656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
```

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```
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303230303838323036343431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F9020088206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DataSetDelete
access rule of the A00000041000010001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F9020088206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Modify the DIDCreate access rule of the A00000041000010001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F7DA17B800101811043415244 2D4150504C49434154494F4EA2
0B8209A0000004100001000183144469666665726 56E7469616C4964656E74697479A40B8509
444944437265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000817F901F7DA17B800101811043415244 2D4150504C494341544
94F4EA20B8209A0000004100001000183144469666665726 56E7469616C4964656E74697479A
40B85094449444437265617465A534A432A015800C496E7465726E616C43657274A1028000820
1FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820201A18201FDA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201A03C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030303831374639303146374441313742383030313031383131303433343135
323434324434313530353034433439343334313534343934463445413230423823039413030
303030303431303030303031303030313833313434343639363636363635373236353645373436
393631364334393634363536453734363937343739413430423835303934343439343434333 7
323635363137343635413533344134333241303135383030433439364537343635373236453 6
313643343336353732373441313032383030303832303146464130313938303130344446313 6
453637343537383734363537323645363136433433336353732373441313032383030303832303 0
314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</enco
dedData>
</invAspect>
```

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```
<invAspect>
  <refId>478</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201B0A18201A4808201A03C6E73323A5472616E736D697420
786D6C6E733A6E73323D22 5726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D6 223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303038313746
393031463744413137423830303130313831313034333431353234343244343135303530344 3
343934333431353434393446344541323042383230394130303030303034313030303031303 0
303138333134343639363636363635373236353645373436393631364334393639363436353645
373436393734373941343042383530393434343934343433373236353631373436354135333 4
413433324130313538303043343936453734363537323645363136433433363537323734413 1
303238303030383230314646413031393830313034443631364536373435373837343635373 2
364536313643343336353732373441313032383030303832303146463030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000817F901F7DA17B800101811043415244 2D4150504C494341544
94F4EA20B8209A000000410000100018314446966666572656E7469616C4964656E74697479A
40B85094449444437265617465A534A432A015800C496E7465726E616C43657274A1028000820
1FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000817F901F7DA17B800101811043415244 2D4150504C494341
54494F4EA20B8209A000000410000100018314446966666572656E7469616C4964656E746974
79A40B85094449444437265617465A534A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645364964652D5443
2D53657373696F6E49442D328100821C536D617274636172645364964652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323730A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E37463930323030383832303634313530343935463446344234239930
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
```

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```
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746393032303038383230363431
353034393546344634423930303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDCreate
access rule of the A00000041000010001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDDelete access rule of the A00000041000010001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F7DA17B80010181104341524 42D4150504C49434154494F4EA2
0B8209A0000004100001000183144469666665726 56E7469616C4964656E74697479A40B8509
44494444656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000817F901F7DA17B800101811043415244 2D4150504C494341544
94F4EA20B8209A0000004100001000183144469666665726 56E7469616C4964656E74697479A
40B850944494444656C657465A534A432A015800C496E7465726E616C43657274A1028000820
1FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820201A18201FDA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369646 52D54432D53657373696F6E49442D32818201A03C
6E73323A5472616E736D6974207 86D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030383137463930314637444131374238303031303138313130343334313 5
323434324434313530353034433439343334313534343934463445413230423832303941303 0
303030303431303030303130303031383331343434363936363636363537323636353645373436
393631364334393634363536453734363937343739413430423835303934343439343434343436
353643363537343635413533344134333241303135383030433439364537343635373236453 6
313643343336353732374413130323830303038323031464641303139383031303444363136
453637343537383734363537323645363136433433363537323734413130323830303038323 0
314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```


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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201B0A18201A4808201A03C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038313746
393031463744413137423830303130313138313130343334313532343432443431353035303443
343934333431353434393446344541323042383230394130303030303034313030303031303030
303138333134343436393636363636353732363536453734653936313643343936343635364537
343639373437394134304238353039343434393434343436353643363537343635413533343134
333241303135383030433439364537343635373534536313643343336353732373441313032383
030383230314646413031393830313034436313645363734353738373436353732364536313643
343336353732373441313032383030383230314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000817F901F7DA17B800101811043415244 2D4150504C494341544
94F4EA20B8209A0000004100001000183144469666666572656E7469616C4964656E74697479A
40B850944494444656C657465A534A432A015800C496E7465726E616C43657274A1028000820
1FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000817F901F7DA17B800101811043415244 2D4150504C494341
54494F4EA20B8209A0000004100001000183144469666665726 56E7469616C4964656E746974
79A40B850944494444656C657465A534A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
```

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```
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
```

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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDDelete
access rule of the A00000041000010001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the A00000041000010001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A17480010181104341524 42D4150504C49434154494F4EA2
0B8209A000000410000100018301D417574686F72697A6174696F6EA40B860941434C4D6F6469
6679A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524 42D4150504C494341544
94F4EA20B8209A000000410000100018301D417574686F72697A6174696F6EA40B860941434C4
D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>509</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201F3A18201EFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201923C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030374137463930314637364131373438303031303138313130343334313
5323434324434313530353034433439343334313534343934463445413230423823039413030
30303030343130303030303130303031383330443431373537343638364637323639374136313
7343639364636454134304238363039343134333443344436463634363936363739413533344
1343332413031353830304334393645373436353732364536313643343336353732373441313
0323830303038323031464641303139383031303444363136453637343537383734363537323
6453631364334333635373237344131303238303030383230314646303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D8201A2A1820196808201923C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303037413746
393031463736413137343830303130313831313034333431353234343244343135303530344 3
343934333431353434393446344541323042383230394130303030303034313030303031303 0
303138333044343137353734363836463732363937413631373436393646364541343042383 6
303934313433344334443646363436393636373941353334413433324130313538303043343 9
364537343635373236453631364334333635373237344131303238303030383230314646413 0
313938303130344436313645363734353738373436353732364536313643343336353732373 4
413130323830303038323031464630303030 3C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524 42D4150504C494341544
94F4EA20B8209A000000410000100001830D417574686F72697A6174696F6EA40B860941434C4
D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200007A7F901F76A17480010181104341524 42D4150504C494341
54494F4EA20B8209A000000410000100001830D417574686F72697A6174696F6EA40B86094143
4C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D6122E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>519</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D22757269736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the A00000041000010001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to modify the CardApplicationList access rule of the
A00000041000010001 application. This
      ACLModify shall fail as the previous ACLModify restricts permissions to
modify A00000041000010001's ACLs. Ensure the
      ACLModify access rule is enforced.</description>
  <encodedData
type="xs:hexBinary">7F901F51A14F8001018110434152442D4150504C494341544F4EA2
0B8209A000000410000100018 30F436172644170706C69636174696F6EA41582134361726441
70706C69636174696F6E4C697374A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000557F901F51A14F8001018110434152442D4150504C494341544
94F4EA20B8209A000000410000100018 30F436172644170706C69636174696F6EA4158213436
172644170706C69636174696F6E4C697374A5038201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201A9A18201A5A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818201483C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
```

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```
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303035353746393031463531413134463830303130313831313034333431 35
32343432443431353035303443343934333431353434393446344541323042383230394130 30
30303030343130303030313030303138333046343336313732363434313730373036433639 36
33363137343639366463645413431353832313334333631373236343431373037303643363 936
33363137343639366463645344336393733373441353033383230313030303030303C2F496E70
7574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820158A182014C808201483C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303035353746
393031463531413134463830303130313831313034333431353234343244343135303530443
343934333431353434393446344541323042383230394130303030303034313030303031303030
303138333046343336313732363434313730373036433639363336313734363936436364541 34
313538323133343336313732363434313730373036433639363336313734363936436364536443
363937333734413530333832303130303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000557F901F51A14F8001018110434152442D4150504C494341544
94F4EA20B8209A0000004100001000183 0F436172644170706C69636174696F6EA4158213436
172644170706C69636174696F6E4C697374A5038201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000557F901F51A14F8001018110434152442D4150504C494341
54494F4EA20B8209A0000004100001000183 0F436172644170706C69636174696F6EA4158213
436172644170706C69636174696F6E4C697374A50382010000</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90202682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494 5449000</encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>


  <OutputAPDU>7F90202682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544944900 0</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393032303236383232343431353034393546353334 35
343335353532343935343539354634333446344534343935343439344634455354634453446
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>534</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>535</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```


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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746393032303236383232343434
313530343935463533343534333535353234393534353935463433344634453434393534343
393446344535463445344635343543535343135343439353334363439343534343930303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F902026822441504495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544900</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to modify the
CardApplicationList access rule of the
     A00000041000010001 application. This ACLModify shall fail as the
previous ACLModify restricts permissions to modify
     A00000041000010001's ACLs. Ensure the ACLModify access rule is
enforced.</description>
  <encodedData
type="xs:hexBinary">7F9020268224415049 5F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the InternalCert DID. This, combined with
MangExternalCert, shall provide us with management
     permissions to update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031443746393031423139413131313738303031303141313032383030303832
304334393645373436353732364536313643343336353732373438333030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>543</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>544</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313031413130323830303038323043343936453734363537323645 36
313643343336353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>546</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800101A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>549</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
```

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```
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>550</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>551</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E7365207865C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert DID. This, combined with
     MangExternalCert, shall provide us with management permissions to
update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the MangExternalCert DID. This, combined with
InternalCert, shall provide us with management
     permissions to update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
```

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```
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323137463930314231444131314238303031303141313032383030303832
3130344436313645363734353738373436353732364536313643343336353733734383330303
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032313746393031
42314441313142383030313031413130323830303038323130344436313645363734353738373
```

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```
343635373236453631364334333635373237343833303030303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800101A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>563</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>566</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>568</refId>
```

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```
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
MangExternalCert DID. This, combined with
     InternalCert, shall provide us with management permissions to update
the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS1 dataset. All authenticated users can read
this information. Only management can update
```

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```
      this information.</description>
  <encodedData
type="xs:hexBinary">7F8F738203E0A18203DC8001018105312D445331A28203CE301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726974657465A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
6D656444617461A10B8309445349437265617465A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF30819580094E616D656444617461A10983074453494C697374A27DA4
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008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A0198010426574614578746E616C43
657274A1028000820100308195800094E616D656444617461A109830744534956164A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A0198010426574614578746E616C43
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74A27DA47BA015800C496E7465726E616C43657274A1028000820FFA562A00E800543485049
4EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A80
11416C70686145787465726E616C43657274A1028000820100A0198010426574614578746572
6E616C43657274A1028000820100308195B80094E616D656444617461A10F830D446174615365
7453656C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
820100A01A8011416C70686145787465726E616C43657274A1028000820100A0198010426574
6145787465726E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000003E67F8F738203E0A18203DC8001018105312D445331A28203CE3
01F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E6
16D656444617461A10A830844534957726974657465A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8
0094E616D656444617461A10B8309445349437265617465A234A432A015800C496E7465726E6
16C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7
465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A
432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
E616C43657274A10280008201FF30819580094E616D656444617461A10983074453494C69737
4A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494
EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A801
```


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1416C70686145787465726E616C43657274A1028000820100A019801042657461457874657261
E616C43657274A10280008201003081958009 4E616D656444617461A1098307445349526561
64A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494
EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A801
1416C70686145787465726E616C43657274A1028000820100A019801042657461457874657261
E616C43657274A10280008201003081998009 4E616D656444617461A10D830B4461746153657
44C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80054
34850494EA10280008201FFA01980104D616E6745787465726E616C43657274A102800082010
0A01A8011416C70686145787465726E616C43657274A1028000820100A019801042657461457
87465726E616C43657274A10280008201003081 B80094E616D656444617461A10F830D44617
46153657453656C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA
562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A
1028000820100A01A8011416C70686145787465726E616C43657274A1028000820100A019801
042657461457874657261 6E616C43657274A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318208CBA18208C7A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696 4652D54432D53657373696F6E49442D328182086A3C
6E73323A5472616E736D6974207 6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746 563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303033453637463846373338323033453041313832303344433803031303138
313035333132443434353 3383141323832303343453330314638303044343137353734363836
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344132303338313031464633303444383030393445363136443635363434343631373436141
313041383330383434353334393537373236393734363541323334413433324130313538303 0
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464130313938303130344436313645363734355738373436353732364536313643343363537
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313734363141313042383330393434353334393433373236353631373436354132333441343 3
324130313538303043343936453734363537323645363136433433363537323734413130323 8
303030383230314646413031393830313034443631364536373435373837343653732364536
313643343336353732373441313032383030303832303146463330344538303039344536313 6
443635363434343631373436314131304238333039343435333439343436353643363537343 6
354132333441343332413031353830304334393645373436353732364536313643343363537
323734413130323830303038323031464641303139383031303444363136453637343537383 7
343635373236453631364334333635373237344131303238303030383230314646333035323 8
303044343137353734363836463732363937413631373436393646364541313042383630393 4
313433344334443646363436393636373941323334413433324130313538303043343936453 7
343635373236453631364334333635373237344131303238303030383230314646413031393 8
303130344436313645363734353738373436353732364536313643343336353732373441313 0
323830303038323031464633303831393538303039344536313644363536343436313734363 6
314131303938333037343435333439344336393733373441323744413437424130313538303 0
433439364537343635373236453631364334333635373237344131303238303030383230314 6
464135363241303045383030353433343835303439344541313032383030303832303146464 1
303139383031303444363136453637343537383734363537323645363136433433363537323 7
344131303238303030383230313030413031413830313134313643373036386361343537383 7
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34363537323645363136433433363537323734413130323830303038323031303041303139383
03130343236353734363134353738373436353732364536313643343336353732373441313032
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33363537323734413130323830303038323031464641353632413030453830303534333435
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35373236453631364334333635373237344131303238303030383230313030303030303C2F49
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</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82087AA182086E8082086A3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303345363746
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413238323033434533303146383030443431373537343638364637323639374136313734363 9
364636454131303938363037343134333443344336393733373441323033383130314646330
344438303039344536313644363536343434363137343631413130413833303834343533439
353737323639373436354132333441343332413031353830304334393645373436353732364 5
363136433433363537323734413130323830303038323031464641303139383031303443631
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343435333439343337323635363137343635413233344134333241303135383030433439364 5
373436353732364536313643343336353732373441313032383030303832303146464130313 9
383031303444363136453637343537383734363537323645363136433433363537323734413 1
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413130423833303934343533343934343635364336353734363541323334413433324130313 5
383030433439364537343635373236453631364334333635373237344131303238303030383 2
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363537323734413130323830303038323031464641303139383031303444363136453637373 5
373837343635373236453631364334333635373237344131303238303030383230314646330
383139353830303934453631364436353634343463137343631413130393833303734343533
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363136433433363537323734413130323830303038323031464641353632413030453830303 5
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373837343635373236453631364334333635373237344131303238303030383230313030333 0
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373436313533363537343443363937333734413237444134374241303135383030433439364 5
373436353732364536313643343336353732373441313032383030303832303146464135363 2
413030453830303534333438353034393445413130323830303038323031464641303139383 0
313034443631364536373435373837343635373236453631364334333635373237344131303 2
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363537343631343537383734363537323645363136433433363537323734413130323830303 0
383230313030333038313942383030393445363136443635363434343631373436314131304 6
383330443434363137343631353336353734353336353643363536333734413237444134374 2
413031353830304334393645373436353732364536313643343336353732373441313032383 0
303038323031464641353632413030453830303534333438353034393445413130323830303 0
383230314646413031393830313034443631364536373435373837343635373236453631364 3
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363134353738373436353732364536313643343336353732373441313032383030303832303 1
303041303139383031303432363537343631343537383734363537323645363136433433363 5
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373237344131303238303030383230313030303030303C2F496E707574415044553E0A3C2F6E
73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000003E67F8F738203E0A18203DC80010181052D445331A28203CE3
01F800D417574686F72697A6174696F6EA109860741434C4C6973A2038101FF304D80094E6
16D656444617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8
0094E616D656444617461A10B830944534943726561746A234A432A015800C496E7465726E6
16C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FF304E80094E616D656444617461A10B830944534943726561746A234A432A015800C496E7
465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A
432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
E616C43657274A10280008201FF308195800A4E616D656444617461A10983074453494C69737
4A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494
EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A801
1416C70686145787465726E616C43657274A1028000820100A019801042657461457876572
6E616C43657274A10280008201003081958009 4E616D656444617461A10983074453495265616
4A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494
EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A801
1416C70686145787465726E616C43657274A1028000820100A019801042657461457876572
6E616C43657274A10280008201003081998009 4E616D656444617461A10D830B4461746153657
44C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80054
34850494EA10280008201FFA01980104D616E6745787465726E616C43657274A102800082010
0A01A8011416C70686145787465726E616C43657274A1028000820100A019801042657461457
87465726E616C43657274A10280008201003081 9B80094E616D656444617461A10F830D44617
461536574536 56C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA
562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A
1028000820100A01A8011416C70686145787465726E616C43657274A1028000820100A019801
042657461457874657 26E616C43657274A10280008201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
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      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F738203E0A18203DC8001018105312D445331A28203
CE301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D8009
4E616D656444617461A10A830844534957726974657A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
4E80094E616D656444617461A10B830944534943726561746 5A234A432A015800C496E746572
6E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000
8201FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C49
6E746572</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF6E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B86
0941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF30819580094E616D65644461
7461A1088307445349 4C697374A27DA47BA015800C496E7465726E616C43657274A102800082
01FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C4365
7274A1028000820100A01A8011416C70686145787465726E616C43657274A1028000820100A0
19801042</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>582</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF65746145787465726E616C43657274A102800082010030
819580094E616D656444617461A1098307445349526561 64A27DA47BA015800C496E7465726E
616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E
6745787465726E616C43657274A1028000820100A01A8011416C706861457874657 26E616C43
657274A1028000820100A0198010426574614578746572 6E616C43657274A102800082010030
819980094E616D656444617461A10D830B446174615365744C697374A27DA47BA015800C496E
7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980
104D616E</encodedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>584</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000E96745787465726E616C43657274A1028000820100A01A80
11416C706861457874657 26E616C43657274A1028000820100A0198010426574614578746572
6E616C43657274A10280008201003081 9B80094E616D656444617461A10F830D446174615365
7453656C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
820100A01A8011416C706861457874657 26E616C43657274A1028000820100A0198010426574
6145787465726E616C43657274A102800082010000</encodedData>
</invAspect>
<invAspect>
  <refId>585</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F740882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>586</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>587</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D536573736967E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D612E3E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463734303838323036343135303439354634463442393O
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>34</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A74643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A2020202033C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463734303838323036343 1
353034393546344634423933030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS1 dataset.
All authenticated users can read this
     information. Only management can update this information.</description>
```

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```
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS1-DSI1 DSI. A DataSetCreate call automatically
selects the new DataSet. Ensure that a DSI
     can be created in the 1-DS1 DataSet without needing to invoke
DataSetSelect.</description>
  <encodedData
type="xs:hexBinary">7F8F7B34A132800101810A312D4453312D44534931822l4E616D653A
20426F62204D634C65616E3B20444F423A20323030382D31302D3033</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000387F8F7B34A132800101810A312D4453312D4453493182214E6
16D653A20426F62204D634C65616E3B20444F423A20323030382D31302D30330000</InputAP
DU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182016FA182016BA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182010E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030333837463846374233344131333238303031303138313041333132443 4
343533333132443434353334393331383232313445363136443635334132303432364636323 2
303444363334433635363136453342323034343446343233413230333233303330333832443 3
```

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```
313330324433303333303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D
69743E</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82011EA18201128082010E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D613223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303033383746
384637423334413333323830303130313138313041333132443434353333313244343435333439
333138323231343536313644363533413230343236463632323034443633344363536313645
334232303434344634323341323033323330333033383244333133303244333033333030303030
3C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</en
codedData>
</invAspect>
<invAspect>
  <refId>599</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000387F8F7B34A132800101810A312D4453312D4453493182214E6
16D653A20426F62204D634C65616E3B20444F423A20323030382D31302D30330000</InputAP
DU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000387F8F7B34A132800101810A312D4453312D445349318221
4E616D653A20426F62204D634C65616E3B20444F423A20323030382D31302D303300</encode
dData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
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```
  <refId>603</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
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656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637433038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637433038383230363431
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353034393546344634423930303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS1-DSI1 DSI.
A DataSetCreate call automatically selects
     the new DataSet. Ensure that a DSI can be created in the 1-DS1 DataSet
without needing to invoke DataSetSelect.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS2 dataset. All authenticated users can read
this information. Only management and the card
     holder can update this information. Ensure that a card application can
contain multiple DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F738203E0A18203DC8001018105312D445332A28203CE301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF30819580094E616D656444617461A10983074453494C697374A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
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008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
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6145787465726E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer. Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

  <InputAPDU>00C200000003E67F8F738203E0A18203DC8001018105312D445332A28203CE3
01F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E6
16D656444617461A10A830844534957 2697465A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8
0094E616D656444617461A10B8309445349437265617465A234A432A015800C496E7465726E6
16C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FF304E80094E616D656444617461A10B8309445349447 656C657465A234A432A015800C496E7
465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A
432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
E616C43657274A10280008201FF30819580094E616D656444617461A10983074453494C69737
4A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494
EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A801
1416C70686145787465726E616C43657274A1028000820100A0198010426574614578746572
6E616C43657274A10280008201003081958009 4E616D656444617461A10983074453495265616
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1416C70686145787465726E616C43657274A1028000820100A0198010426574614578746572
6E616C43657274A10280008201003081998009 4E616D656444617461A10D830B4461746153657
44C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80054
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1028000820100A01A8011416C70686145787465726E616C43657274A1028000820100A019801
042657461457 87465726E616C43657274A10280008201000000</InputAPDU>

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      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318208CBA18208C7A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182086A3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030333453637463846373338323033453041373832303344433830303130313
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</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810082 536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82087AA182086E8082086A3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303345363746
384637333832303345304131383230334443383030313031383130353331324434343533333 2
413238323033434533303146383030443431373537343638364637323639374136313734363 9
364636454131303938363037343134333443344336393733373441323033383130314646333 0
344438303039344536313644363536343434363137343631413130413833303834343533343 9
353737323639373436354132333441343332413031353830304334393645734363537323645
363136433433363537323734413130323830303038323031464641303139383031303444363 1
364536373435373837343635373236453631364334333635373237344131303238303030383 2
```

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3832303146413031393830313034443631364536373435373837343635373236453631364333
3433363537323734413131303238303030383230313030413031413830313134313643373036 38
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3030413031393830313034323635373436313435373837343635373236453631364334333635
3732373441313032383030303832303130303030303C2F496E7075744150445 53E0A3C2F6E
73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000003E67F8F738203E0A18203DC8001018105312D445332A28203CE3
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274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8
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16C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7
465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A
432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
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4A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494
EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A801
1416C70686145787465726E616C43657274A1028000820100A019801042657461457874657
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EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A801
1416C70686145787465726E616C43657274A1028000820100A019801042657461457874657
26E616C43657274A10280008201003081998009 4E616D656444617461A10D830B4461746153657
44C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80054
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0A01A8011416C70686145787465726E616C43657274A1028000820100A019801042657461457
87465726E616C43657274A10280008201003081 9B8009 4E616D656444617461A10F830D44617
46153657453656C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA
562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A
1028000820100A01A8011416C70686145787465726E616C43657274A1028000820100A019801
042657461457874657 26E616C43657274A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>616</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F738203E0A18203DC8001018105312D445332A28203
CE301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D8009
4E616D656444617461A10A830844534957726974657A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
4E80094E616D656444617461A10B830944534943726561746 5A234A432A015800C496E746572
6E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000
8201FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C49
6E746572</encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>36</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF6E616C43657274A10280008201FFA01980104D616E6745
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0941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF30819580094E616D65644461
7461A10983074453494C697374A27DA47BA015800C496E7465726E616C43657274A102800082
01FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C4365
7274A1028000820100A01A8011416C70686145787465726E616C43657274A1028000820100A0
19801042</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF6574614578746572 6E616C43657274A102800820100 30
819580094E616D656444617461A10983074453495265 6164A27DA47BA015800C496E7465726E
616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E
6745787465726E616C43657274A1028000820100A01A8011416C70686145787465726E616C43
```

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657274A1028000820100A0198010426574614578746572
6E616C43657274A102800082010030
819980094E616D656444617461A10D830B446174615365744C697374A27DA47BA015800C496E
7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980
104D616E</encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000E96745787465726E616C43657274A1028000820100A01A80
11416C70686145787465726E616C43657274A1028000820100A0198010426574614578746572
6E616C43657274A10280008201003081980094E616D656444617461A10F830D446174615365
7453656C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
820100A01A8011416C706861457874657265726E616C43657274A1028000820100A0198010426574
6145787465726E616C43657274A102800082010000</encodedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F740882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card

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```
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E374638463734303838323036343135303439354634463442393O
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>627</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>628</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>629</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7408820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>630</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS2 dataset.
All authenticated users can read this
     information. Only management and the card holder can update this
information. Ensure that a card application can
     contain multiple DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS2-DSI1 DSI. A DataSetCreate call automatically
selects the new DataSet. Ensure that a DSI
     can be created in the 1-DS2 DataSet without needing to invoke
DataSetSelect.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F7B3CA13A800101810A312D4453322D44534931822953747265657
743A203233204A61636172616E64612053743B20537572627572623A2057696E73746F6E</en
codedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000407F8F7B3CA13A80010181 0A312D4453322D445349318229537
4726565743A203233204A61636172616E64612053743B20537572627572623A2057696E73746
F6E0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182017FA182017BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182011E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303030343037463846374233434131334138303031303138313041333132443434
3435333332324434343533343933313832323935333734373236353635373433413230333233
3332303441363136333631373236313645363436313230353337343342323035333735373236
3237353732363233413230353736393645373337343646364530303030 3C2F496E7075744150
44553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```


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```
</invAspect>
<invAspect>
  <refId>635</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82012EA18201228082011E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A737465A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303034303746
384637423343413133413830303130313831304133313244343435333332324434343533343 9
333138322393533373437323635363537343341323033323333323034413631363336313732
363136453634363132303533373433422303533373537323632373537323632334132303537
363936453733373436463645303030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000407F8F7B3CA13A800101810A312D4453322D445349318229537
4726565743A203233204A61636172616E64612053743B2053757262757262 3A2057696E73746
F6E0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>638</refId>
```

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```
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000407F8F7B3CA13A800101810A312D4453322D445349318229
5374726565743A203233204A61636172616E64612053743B20537572627572623A2057696E73
746F6E00</encodedData>
</invAspect>
<invAspect>
  <refId>639</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

     <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
```

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```
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637433038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>644</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637433038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>646</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS2-DSI1 DSI.
A DataSetCreate call automatically selects
      the new DataSet. Ensure that a DSI can be created in the 1-DS2 DataSet
without needing to invoke DataSetSelect.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>647</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS2-DSI2 DSI. Ensure that a DataSet can contain
multiple DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7B3DA13B800101810A312D4453322D44534932822A4C616E646C
696E653A203035312036323 1203238333B204D6F62696C653A203034322038323920333831</
encodedData>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000417F8F7B3DA13B800101810A312D4453322D44534932822A4C6
16E646C696E653A203035312036323 1203238333B204D6F62696C653A2030343220383239203
338310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820181A182017DA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201203C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030343137463846374233444131334238303031303138313041333132443434
343533333232443434353333439333238323241344336313645363436433639364536353341323
303330333533313230333633323331323033323338333334232303443646363236393643363
353341323033303334333232303338333233393230333333383333303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820130A1820124808201203C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
```

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6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303034313746
38463742334441313342383030313031383130413331324434343533333232443434353334 39
333238323241344336313645363436433639364536353341323033303335333132303336333 2
333132303332333833333342323034443646363236393643363533413230333033343332323 0
333833233393230333333383331303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000417F8F7B3DA13B800101810A312D4453322D44534932822A4C6
16E646C696E653A2030353120363231203238333B204D6F62696C653A2030343220383239203
338310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000417F8F7B3DA13B800101810A312D4453322D44534932822A
4C616E646C696E653A2030353120363231203238333B204D6F62696C653A2030343220383239
2033383100</encodedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>656</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>657</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637433038383230363431353034393546344634423930
30303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>658</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>660</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3743846374330383830363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS2-DSI2 DSI.
Ensure that a DataSet can contain multiple
     DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3 dataset. All authenticated users, except the
Alpha DID, can read this information. Only
     management can update this information. Ensure that a card application
can contain multiple DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F738202EDA18202E98001018105312D445333A28202DB301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726974657465A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF307980094E616D656444617461A1098307445349 4C697374A261A45F
A015800C496E7465726E616C43657274A10280008201FFA546A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA019801042657461
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4952656164A261A45FA015800C496E7465726E616C43657274A10280008201FFA546A00E8005
434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FFA019801042657461457874657 26E616C43657274A1028000820100307F80094E616D656444
617461A10F830D44617461536574536 56C656374A261A45FA015800C496E7465726E616C4365
7274A10280008201FFA546A00E8005434850494EA10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FFA019801042657461457874657 26E616C43657274A102
8000820100</encodedData>
</invAspect>
<invAspect>
  <refId>664</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002F37F8F738202EDA18202E98001018105312D445333A28202DB3
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16D656444617461A10A830844534957726974657465A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8
0094E616D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E6
16C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7
465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A
432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
E616C43657274A10280008201FF307980094E616D656444617461A1098307445349 4C697374A
261A45FA015800C496E7465726E616C43657274A10280008201FFA546A00E8005434850494EA
10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01980104
```

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```
26574614578746572 6E616C43657274A10280008201003079800 94E616D656444617461A1098
3074453495265616 4A261A45FA015800C496E7465726E616C43657274A10280008201FFA546A
00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FFA01980104265746145787465726E616C43657274A1028000820100307F80094E616
D656444617461A10F830D4461746153657453656C656374A261A45FA015800C496E7465726E6
16C43657274A10280008201FFA546A00E8005434850494EA10280008201FFA01980104D616E6
745787465726E616C43657274A10280008201FFA01980104265746145787465726E616C43657
274A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>665</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318206E5A18206E1A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818206843C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030324633374638463733383230324544413138323032453938303031303138
3130353331324434343533333341323823032444233303146383030443431373537343638363
4637323639374136313734363936646364541313039383630373431343334433443363937333
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1313041383330383434353334393837373236393734363541323334413433324130313538303
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7323734413130323830303030383230314646413031393830313034443631364536373435373
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1303938333037343435333439344336393733373441323631413435464130313538303043343
9364537343635373236453631364334333635373237344131303238303030382303146464130
3534364130304538303035343334383530343934454131303238303030382303146464130313
9383031303444631364536373435373837343635373236453631364334333635373237344413
1303238303030382303146464130313938303130343236353734363134353738373436353732
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3237344131303238303030382303146464135343641303045383030353433343835303439343
4541313032383030303832303146464130313938303130344436313645363734353738373436
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```
3034323635373436313435373837343635373236453631364334333635373237344131303238
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4334333635373237344131303238303030383230314646413031393830313034323635373436
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</invAspect>
<invAspect>
  <refId>666</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>667</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820694A1820688808206843C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
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4132383230324442333031463830304434313735373436383646373236393741363137343639
3646364541313039383630373431343334433443363937333734413230333831303146463330
3444383030393445363136443635363434343631373436314131303138333038343435333439
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3031464633303445383030393445363136443635363434343631373436314131304238333039
3434353334393433373236353631373436354132333441343332413031353830304334393645
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3830313034443631364536373435373837343635373236453631364334333635373237344131
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3830303934453631364436353634343436313734363141303046383330443434363137343631
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3130344436313645363734353738373436353732364536313643343336353732373441313032
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</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

     <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002F37F8F738202EDA18202E98001018105312D445333A28202DB3
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16D656444617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8
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16C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
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432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
E616C43657274A10280008201FF307980094E616D656444617461A10983074453494C697374A
261A45FA015800C496E7465726E616C43657274A10280008201FFA546A00E8005434850494EA
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10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01980104
2657461457874657 26E616C43657274A1028000820100307980094E616D656444617461A1098
3074453495265616 4A261A45FA015800C496E7465726E616C43657274A10280008201FFA546A
00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FFA0198010426574614578746572 6E616C43657274A1028000820100307F80094E616
D656444617461A10F830D44617461536574536 56C656374A261A45FA015800C496E7465726E6
16C43657274A10280008201FFA546A00E8005434850494EA10280008201FFA01980104D616E6
745787465726E616C43657274A10280008201FFA0198010426574614578746572 6E616C43657
274A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>670</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F738202EDA18202E98001018105312D445333A28202
DB301F800D417574686F72697A6174696F6EA109860434434C4C697374A2038101FF304D8009
4E616D656444617461A10A830844534957726974657 5A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
4E80094E616D656444617461A10B8309445349437265617465A234A432A015800C496E746572
6E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000
8201FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C49
6E746572</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF6E616C43657274A10280008201FFA01980104D616E6745
```

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787465726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B86
0941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF307980094E616D6564446174
61A10983074453494C697374A261A45FA015800C496E7465726E616C43657274A10280008201
FFA546A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FFA019801042657461457874657265726E616C43657274A1028000820100307980
094E616D</encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000F5656444617461A109830744534952656164A261A45FA015
800C496E7465726E616C43657274A10280008201FFA546A00E8005434850494EA10280008201
FFA01980104D616E6745787465726E616C43657274A10280008201FFA0198010426574614578
7465726E616C43657274A1028000820100307F80094E616D656444617461A10F830D44617461
53657453656C656374A261A45FA015800C496E7465726E616C43657274A10280008201FFA546
A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A102
80008201FFA019801042657461457874657265726E616C43657274A102800082010000</encodedD
ata>
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F740882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637430383832303634313530343935463446344634239 30
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>680</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463734303838383230363431
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>681</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>682</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS3 dataset.
All authenticated users, except the Alpha
     DID, can read this information. Only management can update this
information. Ensure that a card application can
     contain multiple DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>683</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3-DSI1 DSI.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F7B1FA11D800101810A312D4453332D44534931820C5365766572
653A204E6F6E65</encodedData>
</invAspect>
<invAspect>
  <refId>684</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000237F8F7B1FA11D800101810A312D4453332D44534931820C536
5766572653A204E6F6E650000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820144A1820140A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181E43C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323337463846374231464131314438303031303138313041333132443434
353333332443434353333439333138323043353336353736363537323635334132303445364
364536353030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>686</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
```

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```
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81F2A181E78081E43C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032333746384637
42314641313144383030313031383130413331324434343533333332443434353333439333138
32304335333635373636353732363533413230344536463645363530303030 3C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>689</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000237F8F7B1FA11D800101810A312D4453332D44534931820C536
5766572653A204E6F6E650000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000237F8F7B1FA11D800101810A312D4453332D44534931820C
5365766572653A204E6F6E6500</encodedData>
</invAspect>
<invAspect>
  <refId>691</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637433038383230363431353034393546344634423930
```

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```
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>696</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637433038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>697</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>698</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS3-DSI1
DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>699</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3-DSI2 DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7B1DA11B800101810A312D4453332D44534932820A446573633A
204E6F6E65</encodedData>
</invAspect>
<invAspect>
  <refId>700</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F8F7B1DA11B800101810A312D4453332D44534932820A446
573633A204E6F6E650000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>701</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303032313746384637423144413131423830303130313831304133313244434
353333333244343435333439333238323041343436353733363333413230344536463645363
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>702</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>703</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>704</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032313746384637
423144413131423830303130313831304133313244434345333333324434343533343933238
323041343436353733363333413230344536463645363530303030 3C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>705</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F8F7B1DA11B800101810A312D4453332D44534932820A446
573633A204E6F6E650000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F8F7B1DA11B800101810A312D4453332D44534932820A
446573633A204E6F6E6500</encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>709</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D69745265737065F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637433038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265737065F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E3746384637433038383230363431
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS3-DSI2
DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>715</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3-DSI3 DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7B29A127800101810A312D4453332D4453493382164E616D653A
204E6F6E653B20446F73653A204E6F6E65</encodedData>
</invAspect>
<invAspect>
  <refId>716</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000002D7F8F7B29A127800101810A312D4453332D4453493382164E6
16D653A204E6F6E653B20446F73653A204E6F6E650000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>717</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820158A1820154A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181F83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A7465636836 8656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E64 C653E0A202020203C496E707574415044553E30304332
3030303030303030324437463846374232394131323738303031303138313041333132443434
353333333244343435333439333383231363445363136443635334132303445364636453635
33423230343436463733363533413230344536463645363530303030 3C2F496E707574415044
553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>718</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>719</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>720</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820106A181FB8081F83C6E73323A5472616E736D697420786D
6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563
683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E
646C653E0A202020203C496E707574415044553E3030433230303030303030303244374638463
374232394131323738303031303138313041333132443434353333333244343433333439333
383231363445363136443635334132303445364636453635334232303434364373336353341
323034453646364536353030303C2F496E707574415044553E0A3C2F6E73323A5472616E73
6D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>721</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000002D7F8F7B29A127800101810A312D4453332D4453493382164E6
16D653A204E6F6E653B20446F73653A204E6F6E650000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>722</refId>
  <annexAId>42</annexAId>
  <layer>ECI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200002D7F8F7B29A127800101810A312D4453332D445349338216
4E616D653A204E6F6E653B20446F73653A204E6F6E6500</encodedData>
</invAspect>
<invAspect>
  <refId>723</refId>
```

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```
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>724</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C08820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>725</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 53E3746384637433038383230363431353034393546344634423930
30303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>727</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637433038383230363431
353034393546344634423930303C2F4F75747075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD Layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS3-DSI3
DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>731</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the AccessLog dataset. Only the card holder (CHPIN)
can read this information and only if logging
     has been enabled by authenticating with the global LogAccess DID. The
information is updated by the DataSetSelect
     method. Ensure that an access rule can refer to a Global
DID.</description>
  <encodedData
type="xs:hexBinary">7F8F73820281A182027D8001018109416363657373 4C6F67A282026B
301C80094E616D656444617461A10A830844534957726974657A03820100301F800D41757468
6F72697A6174696F6EA109860741434C4C697374A2038101FF304180094E616D656444617461
A10983074453494C697374A229A427A015800C496E7465726E616C43657274A10280008201FF
A00E8005434850494EA10280008201FF304E80094E616D656444617461A10B83094453494372
65617465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E
6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10B830944
534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F72697A6174
696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305580094E61
6D656444617461A10983074453495206164A23DA43BA015800C496E7465726E616C43657274
A10280008201FFA00E8005434850494EA10280008201FFA012800941636365737 34C6F67A102
810082010030819B80094E616D656444617461A10F830D4461746153657453656C656374A27D
A47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C
706861457874657265 6E616C43657274A1028000820100A019801042657461457874657265 6E616C
43657274A10280008201 00</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002877F8F73820281A182027D8001018109416363657373 4C6F67A
282026B301C80094E616D656444617461A10A830844534957726974657A03820100301F800D4
17574686F72697A6174696F6EA109860741434C4C697374A2038101FF304180094E616D65644
4617461A10983074453494C697374A229A427A015800C496E7465726E616C43657274A102800
08201FFA00E8005434850494EA10280008201FF304E80094E616D656444617461A10B8309445
```

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349437265617465A234A432A015800C496E7465726E616C43657274A10280008201FFA019801
04D616E6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10
B830944534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201F
FA01980104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F726
97A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30558
0094E616D656444617461A1098307445349526561 64A23DA43BA015800C496E7465726E616C4
3657274A10280008201FFA00E8005434850494EA10280008201FFA012800941636365737 34C6
F67A10281008201003081 9B80094E616D656444617461A10F830D4461746153657453656C656
374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80054348504
94EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8
011416C70686145787465726E616C43657274A1028000820100A019801042657461457874657
26E616C43657274A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>733</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182060DA1820609A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818205AC3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A786368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030323837374638463733383230323831413138323032374383030313031383
3130393431363336333635373337333443364636374132383230323642333031433830303934
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3436354132303338323031303033031463830304434313735373436383646372363937413637
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3146463330343138303039344536313644363536343434363137343631413130393833303734
3435333439344336393733373441323239413432374130313538303043343936453734363537
3236453631364334333635373237344131303238303030383230314646413030453830303534
3334383530343934541313032383030303832303146463330344538303039344536313644363
3536343434363737343631413131304238333039343435333439343337323635363137343635
4123334413433324130313538303043343936453734363537323645363136433433363537323
7344131303238303030383230314646413031393830313034443631364536373435373837343
6353732364536313643344333635373237344131303238303030383230314646333034453830
3039344536313644363536343434363137343631413130423833039343435333439343436353
6433653734363541323334413433324130313538303043343936453734363537323645363136
4334333635373237344131303238303030383230314646413031393830313034443631364536
3734353738373436353732364536313643344333635373237344131303238303030383230314
6633303532383030443431373537343638364637323639374136313734363936463645413130
4238363039343134333443344436463634363936363739413233344134333241303135383030
4334393645373436353732364536313643344333635373237344131303238303030383230314
6641303139383031303444363136453637343537383734363537323645363136433433363537
3237344131303238303030383230314646333035353830303934453631364436353634343436
3137343631413130393833303734343533343935323635363136344132334441343342413031
3538303043343936453734363537323645363136433433363537323734413130323830303038
3230314646413030453830303534333438353034393445413130323830303038323031464641
3031323830303934313633363336353733373334433646363741313032383130303832303130
3033303831394238303039344536313644363536343434363137343631413130463833304434
```


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343631373436313533363537343533363536433635363337344132374441343742413031353830304334393645373436353732364536313643343336353732373441313032383030303832303031464641353632413030453830303534333438353034393445413130323830303038323031463964413031393830313034443631364536373435373837343635373236453631364334333635373237344131303238303030383230314646413031414380301313431364337303638363134353738313034323635373436313435373837343635373236453631364334333635373237344131303238303030383230313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>734</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>735</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>736</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8205BCA18205B0808205AC3C6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E3030433230303030303030303238373746384637333832303233831413138323032374438303031303138313039343136333633363353733373334433646363741323832303236423330314338303039344536313644363536343434363137343631413130413833303834343533343935373732363937343635413230333832303130303333038314638303044343137353734363836463732363937413631373436393646364541313039383630373431343334433443363937333734413230333831303146463330343138
```

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373237344131303238303030383230314646333034453830303934453631364436353634343436313734363141313042383330393434353334393434363536433635373436354132333441343631303135383030433439363537343635373236453631364334333635373237344131303238303030383230314646413031393830313034443631364536373437383734363537323645363136433433363537323734413130323830303038323031464641303139383031303
```

```
      </ns2:Transmit>
    </encodedData>
  </invAspect>
  <invAspect>
    <refId>738</refId>
    <annexAId>43</annexAId>
    <layer>GCI</layer>
    <layerName>Smart Card</layerName>
    <method>transmitApdu</method>
    <invocationType>CALL</invocationType>
    <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
    <encodedData
type="xs:hexBinary">10C20000FF7F8F73820281A182027D8001018109416363657373 4C6F
67A282026B301C80094E616D656444617461A10A830844534957726977465A203820100301F80
0D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304180094E616D65
6444617461A10983074453494C697374A229A427A015800C496E7465726E616C43657274A102
80008201FFA00E8005434850494EA10280008201FF304E80094E616D656444617461A10B8309
44534943726561746 5A234A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF304E80094E616D656444617461
A10B8309</encodedData>
  </invAspect>
  <invAspect>
    <refId>739</refId>
    <annexAId>43</annexAId>
    <layer>GCI</layer>
    <layerName>Smart Card</layerName>
    <method>transmitApdu</method>
    <invocationType>RETURN</invocationType>
    <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object. Response chaining may be required.</description>
    <encodedData type="xs:hexBinary">9000</encodedData>
  </invAspect>
  <invAspect>
    <refId>740</refId>
    <annexAId>43</annexAId>
    <layer>GCI</layer>
    <layerName>Smart Card</layerName>
    <method>transmitApdu</method>
    <invocationType>CALL</invocationType>
    <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
    <encodedData
type="xs:hexBinary">10C20000FF44534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF305580094E616D656444617461A1098307445349526561 64A23DA43B
A015800C496E7465726E616C43657274A10280008201FFA00E8005434850494EA10280008201
FFA012800941636365737 34C6F67A10281008201003081 9B80094E616D656444617461A10F83
0D446174</encodedData>
  </invAspect>
  <invAspect>
```

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```
  <refId>741</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C2000089615365745365 6C656374A27DA47BA015800C496E746572
6E616C43657274A10280008201FFA562A00E800543485049 4EA10280008201FFA01980104D61
6E6745787465726E616C43657274A10280008201FFA1A8011416C70686145787465726E616C
43657274A1028000820100A019801042657461457 87465726E616C43657274A1028000820100
00</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F740882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>745</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645364652D5443
2D53657373696F6E49442D328100821C536D617274636172645369645265443 2D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>746</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>747</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>748</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
```

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6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637343038383230363431
353034393546344634423934303303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the AccessLog
dataset. Only the card holder (CHPIN) can read
     this information and only if logging has been enabled by authenticating
with the global LogAccess DID. The
     information is updated by the DataSetSelect method. Ensure that an
access rule can refer to a Global DID.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>751</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the AccessLog DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7B12A110800101810941636365737 34C6F678200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>752</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F8F7B12A11080010181094163636573734C6F6782000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>753</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A74656368736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031363746384637423132413131303830303130313831303934313633363
3635373337333443364636373832303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>754</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>755</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4652D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
```


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```
  <refId>756</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303136374638463
42313241313130383030313031383130393431363336333635373337333443364636373832303
30303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D697453E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>757</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C20000000167F8F7B12A1108001018109416363657373 4C6F6782000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>758</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F8F7B12A1108001018109416363657373 4C6F67820000
</encodedData>
</invAspect>
<invAspect>
  <refId>759</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>760</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>761</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463743303838323036343135303439354634463442393
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>763</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637433038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E820641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Create the AccessLog
DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>767</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Authenticate as the card holder. This shall
enable us to read the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800101A10280008205434850494E83000</encodedDat
a>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000167F901B12A110800101A10280008205434850494E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303136374639303142313241313130383030313031413130323830303038 32
3035343334383530343934453833303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>770</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>771</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>772</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031363746393031
42313241313130383030313031413130323830303038323035343334383530343934454383330
30303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>773</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000167F901B12A110800101A10280008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>774</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800101A10280008205434850494E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>775</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>776</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>777</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>778</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>779</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369 64652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>781</refId>
```

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```
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition:
Authenticate as the card holder. This shall enable us
     to read the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000010001 card
application access rules. Ensure that the ACL has
     been updated appropriately.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A000000410000100010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E
6E6574821C436C69656E74417070536964652D54432D536573736 96F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303032383746393031443234413132323830303130313831313034333431353 2
343432443431353035303443343934333431353434393446344541323042383230394130303 0
303030343130303030313030303031303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>787</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>788</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
443234413132323830303130313138313130343334313532343432443431353035303443343934
333431353434393446344541323042383230394130303030303034313030303031303030313130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>789</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A00000041000010001 0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>790</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010181104341524 42D4150504C494341
54494F4EA20B8209A000000410000 1000100</encodedData>
</invAspect>
<invAspect>
  <refId>791</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF30268014446966666572656E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D45786563757465416374696F6EA203820100302B800A436F6E6E656374696F6E
A11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172
644170706C69636174696F6EA11582134361726441707 06C69636174696F6E4C697374A20381
01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
6100</encodedData>
</invAspect>
<invAspect>
  <refId>792</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>793</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">636F6E656374A2038101FF302E800A436F6E6E656374696F6EA11B
81194361726441707 06C69636174696F6E456E6453657373696F6EA2038101FF302F800F4361
726441707 06C69636174696F6EA11782154361726441707 06C69636174696F6E437265617465
A2038101FF302F800F4361726441707 06C69636174696F6EA11782154361726441707 06C6963
6174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF3034800F4361726441707
06C69636174696F6EA11C821A4361726441707 06C69636174696F6E536572766963654C6973
6100</encodedData>
</invAspect>
<invAspect>
  <refId>794</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>795</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">74A2038201003034800F436172644170706C69636174696F6EA11C82
1A436172644170706C69636174696F6E536572766963654C6F6164A2038201003036800F4361
72644170706C69636174696F6EA11E821C436172644170706C69636174696F6E536572766963
65437265617465A2038201003036800F436172644170706C69636174696F6EA11E821C436172
644170706C69636174696F6E536572766936544656C657465A2038201003038800F43617264
4170706C69636174696F6EA120821E436172644170706C69636174696F6E536572766936544
65736372696265A2038201003052800 94E616D656444617461A10F830D446174615365744372
6100</encodedData>
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">65617465A234A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FF305280094E616D65
6444617461A10F830D4461746153657444656C657465A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF3059801444696666657265E7469616C4964656E74697479A10B85094449
6100</encodedData>
</invAspect>
<invAspect>
  <refId>798</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>799</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">44437265617465A234A432A015800C496E7465726E616C43657274A1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3059801444
6966666572656E7469616C4964656E74697479A10B85094449444465C657465A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF30819980094E616D656444617461A10D830B446174615365744C6973
74A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800543485049
4EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A80
6100</encodedData>
</invAspect>
<invAspect>
  <refId>800</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">11416C70686145787465726E616C43657274A1028000820100A01980
1042657461457874657 26E616C43657274A10280008201008206415049 5F4F4B9000</encode
dData>
</invAspect>
<invAspect>
  <refId>802</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
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      <Result>IFD_OK</Result>


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  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
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     marshalled response object from the previous IFD
response.</description>
  <encodedData
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  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000010001 card application
      access rules. Ensure that the ACL has been updated
appropriately.</description>
  <encodedData
type="xs:hexBinary">
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  <annexAId>47</annexAId>
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  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000010001 card
application DID list. Ensure that the DID list
      contains the newly created DIDs.</description>
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</invAspect>
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  <refId>810</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>811</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374639303131303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>812</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>813</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>814</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E303043323030303030303030303393746393031
313035413130333830303130313031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>815</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>816</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>817</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A104265746145787465726E616C436572741A104D616E6745787465726E616C436572741A
11416C70686145787465726E616C4365727482064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>818</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
4265746145787465726E616C436572741A104D616E6745787465726E616C436572741A11416C
70686145787465726E616C4365727482064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>819</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019EA182019AA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201563C6E73323A5472616E736D6974526573706F6E736520786D6C6E
```

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```
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031323538413131344541303443314130353433334
383530343934453141304334393645373436353732364536313643343336353732373431413130
303432363537343631343537383734363537323645363136433433363537323734314131
303432363537343631343537383734363537323645363136433433363537323734314131313034
443631364536373435373837343635373236453631364334333635373237343141313134313136
433730363836313435373837343635373236453631364334333635373237343823036343135
303439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E73
6D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>820</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>821</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>822</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393031323538413134
4541303443314130353433343835303439344531413043343936453734363537323645363136
433433363537323734314131303432363537343631343537383734363537323645363136433433
333635373237343141313034443631364536373435373837343635373236453631364334333
353732373431413131343136433730363836313435373837343635373236453631364334333
353732373438323036343135303439354634463442393030303C2F4F7574707574415044553E
0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>823</refId>
```


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```
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
426574614578746572 6E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657 26E616C436572741A104D616E6745787465726E616C436572741A11416C
70686145787465726E616C4365727482064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>824</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000010001 card application DID
     list. Ensure that the DID list contains the newly created
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657 26E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657 26E616C4365727482064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>825</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000010001 card
application DataSet list. Ensure that the DataSet
     list contains the newly created DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>826</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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```
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>827</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D227572E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463731303541313033303030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>828</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>829</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>830</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>831</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>832</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>833</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>834</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>835</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820145A1820141A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181FE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A20202020 3C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323243413132324130323031413033533313244
3434353333313141303533313244434345333332314130353331324434345333333314130 39
343136333633363537333733443364636373832303634313530343935463446344239303030
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>836</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>837</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>838</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82010DA18201018081FE3C6E73323A5472616E736D69745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A2020202 03C526573756C743E4946445F4F4B
3C2F526573756C743E0A202020203C4F7574075744150445 53E3746384637323243413132 32
413032303141303533313244343435333331314130353331324434345333333231413035333 1
32443434353333333141303934313633363336353733373334433646363738323036343135 30
343935463446344239303030 3C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>839</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

     <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>840</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000010001 card application
```

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```
      DataSet list. Ensure that the DataSet list contains the newly created
DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>841</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>842</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105312D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>843</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031303746384637353043413130413830303130313831303533331324434
353333313030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
```

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```
  <refId>844</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>845</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>846</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130313038313035333132443434353333313030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>847</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105312D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>848</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105312D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>849</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>850</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>851</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>852</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>853</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>854</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>855</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>856</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
1-DS1 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>857</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 1-DS1 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>858</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>859</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637393035413130333830303130313030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>860</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>861</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>862</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>863</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>864</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>865</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>866</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B9000</
OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>867</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130304331413041333132 44
34343533333132443434353334393331383230363431353034393546344634423930303 03C2F
4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>868</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>869</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>870</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413138413130454130
3043314130413331324434343435333331324434343533343933313832303634313530343934
34463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>871</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B9000</
OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>872</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 1-DS1 DSI list. Ensure that the DSI list
      contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>873</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105312D445332</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>874</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>875</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304138303031303138313035333132443434
3533333230303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>876</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>877</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>878</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303130374638463
353043413130413830303130313138313035333132443434353333323030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>879</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>880</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105312D44533200</encodedDat
a>
</invAspect>
```

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```
<invAspect>
  <refId>881</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>882</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>883</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D5365737373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E374638463736303838323036343135303439354634463442393030
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>884</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>885</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>886</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D22757269733A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423934303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>887</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>888</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
1-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>889</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 1-DS2 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>890</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>891</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463739303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>892</refId>
```

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```
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>893</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>894</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA18EB38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A2020202036C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>895</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>896</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>897</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
44534932820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>898</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D445349
3282064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>899</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820135A1820131A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181EE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413234413131414130313831413041333132 44
34343533333232443434353334393331314130413331324434343533333232443434353333439
33323832303634313530343935463446344239303030 3C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>900</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>901</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747033A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>902</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413234413131414130
313831413041333132443434353333323244343435333439333131413041333132443434353
333232443434353333439333238323036343135303439354634463442393030303C2F4F757470
7574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>903</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>904</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 1-DS2 DSI list. Ensure that the DSI list
     contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
44534932820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>905</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105312D445333</encodedData>
</invAspect>
<invAspect>
  <refId>906</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000107F8F750CA10A8001018105312D4453330000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>907</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E7075744415044553E30304332
303030303030303031303746384637353043413130413830303130313831303533313244343434
353333333030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>908</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>909</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>910</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130313138313035333132443434353333333030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>911</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105312D4453330000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>912</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105312D44533300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>913</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>914</refId>
```

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```
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>915</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>916</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>917</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>918</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>919</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>920</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
1-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>921</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
```


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```
  <description>Post-condition: Retrieve the 1-DS3 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>922</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>923</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846373930354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>924</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>925</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>926</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>927</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>928</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>929</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D4453493382064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>930</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D445349
321A0A312D4453332D4453493382064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>931</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201063C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E37463846374133304131323641303234314130413331 32
443434353333333244343435333439333131413041333132443434353333333244343435333 4
393332314130413331324434343533333332443434353334393333383230363431353034393 5
463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452
6573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>932</refId>
```

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```
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>933</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>934</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820116A182010A808201063C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746384637413330413132
364130323431413041333132443434353333333244343435333439333131413041333132443434
343533333332443434353334393332314130413331324434343533333332443434353334393 3
33383230363431353034393546344634423930303 03C2F4F7574707574415044553E0A3C2F6E
73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>935</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D445349
321A0A312D4453332D44534933820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>936</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 1-DS3 DSI list. Ensure that the DSI list
      contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D44534933820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>937</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>938</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800101810941636365737 34C6F670000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>939</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313437463846373531304131304538303031303138313039343136333633
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>940</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>941</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810 821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>942</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
    IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384637
353130413130453830303130313831303934313633363336353733373334433646363730303030
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>943</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800101810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>944</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800101810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>945</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>946</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>947</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463736303838323036343135303439354634463442393030
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>948</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>949</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>950</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E374638463736303838323036343 1
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>951</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>952</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>953</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the newly created DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>954</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>955</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463739303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>956</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>957</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>958</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>959</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>960</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>961</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B90
00</encodedData>
</invAspect>
<invAspect>
  <refId>962</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>963</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011BA1820117A03E801C536D617274636172645369646652D
54432D536573736F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D613323E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455 3E3746384637413137413130444130304231413039343136333
3633363537333733344336463637383230363431353034393546344634423930303C2F4F75
747075744415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>964</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>965</refId>
  <annexAId>56</annexAId>
```


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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>966</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A2020202033C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463741313741313044413
3042314130393431363336333633653733373333443364636373832303634313530343935463446
3442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>967</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>968</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
      list contains the newly created DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>969</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A000000410000010001
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>970</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C2000000000097F8F5905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>971</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>972</refId>
```

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```
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>973</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>974</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA18EB38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A2020202036C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>975</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>976</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>977</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>978</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>979</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
```

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```
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>980</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>981</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>982</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>983</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```


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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>984</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the A00000041000010001 application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>985</refId>
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the Alpha card application.
Transmit on the IFDProxy shall be invoked to
      transmit the CardApplicationDisconnect APDU to the Alpha card
application. After transmit has completed, disconnect
      shall be invoked on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>986</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>987</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030303937463846353930354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>988</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>989</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D3281008201C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>990</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>991</refId>
  <annexAId>58</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>992</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>993</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>994</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
        <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>995</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645364652D5443
2D53657373696F6E49442D328100821C536D617274636172645364652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431333034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>996</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>997</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>998</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>999</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1000</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1001</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
```

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```
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>1002</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1003</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1004</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1005</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1006</refId>
  <annexAId>58</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1007</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F766572653745265737 06F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F766572653745265737 06F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1008</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1009</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1010</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1011</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1012</refId>
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application. Transmit
     on the IFDProxy shall be invoked to transmit the
CardApplicationDisconnect APDU to the Alpha card application. After
     transmit has completed, disconnect shall be invoked on the
IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1013</refId>
  <annexAId>59</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>1014</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
```

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```
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1015</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>1016</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1017</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1018</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1019</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContext>

       <ContextHandle>00</ContextHandle>
      </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1020</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContextResponse>

       <Result>IFD_OK</Result>
      </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1021</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370 6F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657370 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1022</refId>
  <annexAId>59</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1023</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1024</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E73652078D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F5265737 C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1025</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1026</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
```

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```
    <invocationType>CALL</invocationType>
    <description>Close the TC from the client application host.</description>
    <encodedData
  type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
  657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
  2D32</encodedData>
  </invAspect>
  <invAspect>
    <refId>1027</refId>
    <annexAId>59</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>close</method>
    <invocationType>RETURN</invocationType>
    <description>Return of close the TC from the client application
  host.</description>
    <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>1028</refId>
    <annexAId>59</annexAId>
    <layer>SAL</layer>
    <layerName>SAL Proxy</layerName>
    <method>terminate</method>
    <invocationType>RETURN</invocationType>
    <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
  This shall automatically invoke
       ReleaseContext on the IFDProxy.</description>
    <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>1029</refId>
    <annexAId>0</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>close</method>
    <invocationType>CALL</invocationType>
    <description>Close the trusted channel on the smartcard host
  side.</description>
    <encodedData
  type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
  657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
  49442D31</encodedData>
  </invAspect>
  <invAspect>
    <refId>1030</refId>
    <annexAId>0</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>close</method>
    <invocationType>RETURN</invocationType>
    <description>Close the trusted channel on the smartcard host
  side.</description>
    <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
  </invAspect>
</invAspectList>
```

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B.3 Application management - application data structure construction error conditions

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements the ENVELOPE APDU) as described in Annex A.1.3, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.3.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
     <invAspect>
       <refId>1</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>CALL</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
     </invAspect>
     <invAspect>
       <refId>2</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>RETURN</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData
     type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646
     57373696F6E49442D318100821C536D617274636172645369646
     49442D3182064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>3</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>initialize</method>
       <invocationType>CALL</invocationType>
       <description>Initialise the SAL Proxy.</description>
       <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
     </invAspect>
     <invAspect>
       <refId>4</refId>
       <annexAId>1</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the Alpha card application. This
shall first invoke connect on the IFDProxy. In
     turn connect shall be invoked on the IFD layer on the client side.
After connect has completed, transmit on the
     IFDProxy shall be invoked to transmit the CardApplicationConnect APDU
to the Alpha card application. The IFD Name
     shall need to be replaced with an actual reader name when comparing the
results to results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C6973684368F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A2020202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C546572D696E6174696F6E506F696E743E0A2020202020202020203C5365
7373696F6E4964656E746966965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A2020202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A2020202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>
```

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```
      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E746578745265737065F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C52657375746C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E746578745265737065F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
74657874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContextResponse>

       <Result>IFD_OK</Result>

       <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

       <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820199A1820195A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369646 52D54432D53657373696F6E49442D32818201383C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030344437463846353734394131343741303432413131423830313936383 7
34373437303341324632463733364436313732373436333631373236343244363836463733 37
34324536453635373438383138343236433735363532303439343634343230353236353631 36
34363537323230353334533233343333333234313334383430313031383530364538323838
31433131373032383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820148A182013C808201383C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433030303030303030303034443746
384635373439413134374130343241313142383031393633373437343730334132463273 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530364538323838314331313730323831303130 3
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004D7F8F5749A147A042A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018506E82881C1170281010000</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384635383044413130333830303130303832303634 31
353034393546344634423930303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the Alpha card application. This shall first
     invoke connect on the IFDProxy. In turn connect shall be invoked on the
IFD layer on the client side. After connect
     has completed, transmit on the IFDProxy shall be invoked to transmit
the CardApplicationConnect APDU to the Alpha
     card application. The IFD Name shall need to be replaced with an actual
reader name when comparing the results to
     results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application DID list
of global DIDs. Ensure the CardApplicationList only contains
     the Alpha and card holder (A000000041000010001) card
applications.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
    </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303030393746384635463035413130333830303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
463035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5F05A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F601FA115A0130406E82881C117020409A00000041000010001820
6415049F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F8F601FA115A0130406E82881C117020409A000000410000100018206415
0495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012BA1820127A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181E43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6966633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636303146413131354130313330343036453832 38
3831433131373032303430394130303030303034313030303031303030313832303634313530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81F2A181E78081E43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636303146413131354130
313330343036453832383831433131373032303430394130303030303034313030303031303
303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F601FA115A0130406E82881C117020409A0000004100001000182064150
495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application DID list of global DIDs. Ensure
      the CardApplicationList only contains the Alpha and card holder
(A0000004100001000l) card applications.</description>
  <encodedData
type="xs:hexBinary">7F8F601FA115A0130406E82881C117020409A0000004100001000182
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000010001 card
application.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8509A0000004100001000181010 0</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100001000181010000 00</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303035303746384635373443413134414130343541313142383031393638373
3437343730334132463246373336443631373237343633363137323634324436383646373337
3432453645363537343833313834323643373536353230343934363434323035323635363136
3436353732323035333445333233343333333234313334383430313031383530394130303030
3030343130303030303130303031383130313030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA1820142808201 3E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463273 3
364436313732373436333631373236343243436383646373337343245364536353734383331 38
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303031
383130313030303030303C2F496E70757441504553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000100018101 0000</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130313832303634313
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130313832303634313530343935463446344639303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the
A00000041000010001 card application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect again to the A00000041000010001 card application.
Ensure that multiple non-exclusive connections
      can exist to the same card application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A000000410000100018101000</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504455E303043
323030303030303030353037463846353734434131344141303435413134238303139363837
343734373033413246324637336443631373237343633363137323634324436383646373337
343245364536353734383331383432364337353635323034393430343432303532363536313
343635373232303533344533323334333333323431333438343031303130313835303941303030303
303034313030303031303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373
364436313732373436333631373236343244436383646373337343245364536353734383331
343236433735363532303439343634343230353236353631363436353732323035333445332
333433333332343133334383430313031383530394130303030303034313030303031303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000100018101000</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010282064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010282064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130323832303634 31
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303238323036343135303439354634463A4239303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D69745265737 06F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

     <Result>IFD_OK</Result>

     <OutputAPDU>7F8F580DA10380010282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect again to the
A00000041000010001 card application. Ensure that
     multiple non-exclusive connections can exist to the same card
application.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F580DA10380010282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to connect, in exclusive mode, to the
A00000041000010001 card application. Ensure an exclusive
     connection attempt shall fail when a non-exclusive connection already
exists.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D617274636172642
2D686F73742E6E65748318426C7565204946442052656164657220534E32343324134840101
8509A000000410000100018101FF</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005F7F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303035303746384635373443413134414130343541313142383031393638 37
```

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```
343734373033413246324637333644363137323734363336313732363432443638364637333
343245364536353734383331383432364337353635323034393436343432303532363536313
343635373232303533344533323334333333323431333438343031303138353039413030303
030343130303030303130303031383130314646303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E6460653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384633373443413134414130343541313142383031393638373437343730334132463246373
3644363137323734363336313732363432443638364637333734324536453635373438333138
343236433735363532303439343634343230353236353631363436353732323035333445333
333433333332343133334383430313031383530394130303030303034313030303031303030
383130314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100001000018101FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100001000018101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
4C41424C459000</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F8F581D821B4150495F4558434C55534956455F4E4F545F415641494C4142
4C459000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820127A1820123A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181E03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383144383231423431353034393546343535538
343334433535353334393536343535463445344635343546343135363431343934433431343432
34433435393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383144383231423431
353034393546343535383433344433535353343935363435354634453446353435463431353
343134393443343134323443343539303030 3C2F4F7574707574415044553E0A3C2F6E73323A
5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F581D821B4150495F4558434C55534956455F4E4F545F415641494C4142
4C459000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to connect, in
exclusive mode, to the A00000041000010001 card
      application. Ensure an exclusive connection attempt shall fail when a
non-exclusive connection already exists.</description>
  <encodedData
type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
4C41424C45</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the A00000041000010001 card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800102</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001020000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201l0A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384635393035413130333830303130323030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130323030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001020000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010200</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
```

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```
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A08820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 53E3746384635413038383230363431353034393546344634423930
30303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F75747075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD Layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the
A00000041000010001 card application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
 <description>Disconnect again from the A00000041000010001 card application.
After this disconnect, there shall not be
     any connections to the A00000041000010001 card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C2000000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
```

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```
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA18EB38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A2020202036C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>134</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
```

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```
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```


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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect again from the
A00000041000010001 card application. After
      this disconnect, there shall not be any connections to the
A00000041000010001 card application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect, in exclusive mode, to the A00000041000010001 card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E6574831842 6C7565204946442052656164657220534E323433324134840101
8509A00000041000010001 8101FF</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E6574831842 6C7565204946442052656164657220534E32343332413
48401018509A00000041000010001 8101FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504455303043
32303030303030303030353037463846353734434131344141303435413131423830313936383737
34373437303341324632463733364436313732373436333631373236343244363836463733373
34324536453635373438333138343236433735363532303439343634343230353236353631363
34363537323230353334453332333433333332343133334383430303031383530394130303030
30303431303030303031303030313831303146463030303C2F496E7075744150445530A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
6573736F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
```

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```
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244436383646373337343245364536353734383331 38
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303030 31
383130314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100001000181 01FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100001000181 01FF00</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6F73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384635383044413130333830303130313832303634 31
3530343935463446344239303030 3C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
 <description>Return of previous SAL Proxy call: Connect, in exclusive mode,
to the A00000041000010001 card
     application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>159</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
 <description>Attempt to connect to the A00000041000010001 card application.
Ensure a non-exclusive connection attempt
     shall fail when an exclusive connection already exists.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A00000041000010001810 1000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303035303746384635373443413134414130343541313142383033139363837
3437343730334132463246373336443631373237343633363137323634324436383646373337
3432453645363537343833313834323643373536353230343934363434323035323635363136
3436353732323035333445333233343333333234313334383430313031383530394130303030
3030343130303030313030303138313031303030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134413034354131314238303139363837343734373033413246324637333
364436313730373436333631373236343244363836463733373432453645363537343833313
343236433735363532303439343634343230353236353631363436353732323035333445333
333433333233243133334383430313031383530394130303030303034313030303031303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100001000181010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100001000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
4C41424C459000</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F581D821B4150495F4558434C55534956455F4E4F545F415641494C4142
4C459000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820127A1820123A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181E03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383144383231423431353034393546343535538
343334433535353334393536343535463445344635343546343135363431343934433431343432
344334353930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657
73706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617746361726 42D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697452657370
```

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```
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746384635383144383231423431
353034393546343535383433344433535353334393536343535463445344635343546343135 36
343134393443343134323443343539303030 3C2F4F7574075744150445 53E0A3C2F6E73323A
5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F581D821B4150495F4558434C55534956455F4E4F545F415641494C4142
4C459000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to connect to the
A00000041000010001 card application. Ensure
     a non-exclusive connection attempt shall fail when an exclusive
connection already exists.</description>
  <encodedData
type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
4C41424C45</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to connect, in exclusive mode, to the
A00000041000010001 card application. This shall fail as the
     A00000041000010001 application already has an exclusive connection to
it.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8509A00000041000010001 8101FF</encodedData>
</invAspect>
```


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```
<invAspect>
  <refId>176</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B80196874747703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100001000181O1FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A23437323A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030353037463846353734434131344141303435413131314238303139363837
343734373033413246324637333644363137323734363336313732363432443638364637333
343245364536353734383331383432364337353635323034393436343432303532363536313
343635373232303533344533323334333333323431333438343031303138353039413030303030
303034313030303031303030313831303146463030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>11</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E733A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393837343734373033413246324632463733
364436313732373436333631373236343244363836433733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303030 31
383130314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100001000181 01FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000100018101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
4C41424C459000</encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F581D821B4150495F4558434C55534956455F4E4F545F415641494C4142
4C459000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820127A1820123A03E801C536D617274636172645369646 52D
```

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```
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181E03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E37463846353831443832314234313530343935463435353 8
343334433535353334393536343535463445344635343546343135363431343934433431343 2
344334353930303 03C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E37463846353831443831423143 1
353034393546343535383433344433535353334393536343535463445344635343546343136
343134393443343134323443343435393030303C2F4F7574707574415044553E0A3C2F6E73323A
5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F581D821B4150495F4558434C55534956455F4E4F545F415641494C4142
4C459000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to connect, in
exclusive mode, to the A00000041000010001 card
      application. This shall fail as the A00000041000010001 application
already has an exclusive connection to it.</description>
  <encodedData
type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
4C41424C45</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect the exclusive connection from the
A00000041000010001 card application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504553E30304332
30303030303030303039374638463539303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
```

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```
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
```

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```
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D69745265737706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265737706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746384635413038383230363431
353034393546344634423939303030 3C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect the exclusive
connection from the A00000041000010001 card
     application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the A00000041000020001 application with an empty
access control list. No access rule is the same
     as an access rule that is set to never.</description>
  <encodedData
type="xs:hexBinary">7F8F6112A1108001008109A00000041000020001A200</encodedDat
a>
</invAspect>
```

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```
<invAspect>
  <refId>208</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F8F6112A1108001008109A000000410000200001A2000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303136374638463631313241313130383030313030383130394130303030
3034313030303032303030314132303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031363746384636
3131324131313038303031303038313039413030303030303431303030303032303030314132 30
30303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F8F6112A1108001008109A0000004100002000 1A2000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C20000167F8F6112A1108001008109A0000004100002000 1A20000
</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F620882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F620882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384636323038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>13</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636323038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F620882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>222</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the
A00000041000020001 application with an empty access control
     list. No access rule is the same as an access rule that is set to
never.</description>
  <encodedData type="xs:hexBinary">7F8F620882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>A connection is not allowed as there is no access rule for
the CardApplicationConnect action.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A000000410000200018101000</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030353037463846353734434131344141303435413131423830313936383 7
343734373033413246324637333644363137323734363336313732363432443638364637333 7
343245364536353734383331383432364337353635323034393436343432303532363536313 6
343635373232303533344533323334333333323431333438343031303138353039413030303 0
303034313030303032303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4652D54432D53
657373696F6E49442D32810 0821C536D617274636172645369646 4652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246733
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303032303030 31
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>229</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100002000181010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200005507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100002000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F582682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494945449000</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F582682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544945449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383236382323434313530343935463533343 5
343335353532343935343539354634333446344534343439353434393446344535463446345 3
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>236</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746384635383236383232343434
313530343935463533343534333535353234393534353935463433344634453434393534343
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F582682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494454490000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: A connection is not
allowed as there is no access rule for the
     CardApplicationConnect action.</description>
  <encodedData
type="xs:hexBinary">7F8F582682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>15</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the inaccessible A00000041000020001 card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F6310A10E8001008109A00000041000020001</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F6310A10E8001008109A00000041000020001000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303134374638463633313041313045383030313030383130394130303030
3034313030303032303030313030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C636E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384636
333130413130453830303130303831303941303030303030343130303030323030303130303030
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F6310A10E8001008109A0000004100002000 10000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F6310A10E8001008109A000000410000200010</en
codedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F640882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F640882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646520
2D53657373696F6E49442D328100821C536D617274636172645369646520
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
```

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```
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384636343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F640882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the inaccessible
A00000041000020001 card application.</description>
  <encodedData type="xs:hexBinary">7F8F640882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000010001 card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E3234333241348401018509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A00000041000010001810100000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030353037463846353734434131344141303435413131423830313936383737
343734373033413246324637333644363137323734363336313732363432443638364637333737
343245364536353734383331383432364337353635323034393436343432303536353635363136
343635373232303533344533323334333333323431333438343031303130383533394130303030
303034313030303031303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373
364436313732373436333631373236343244363836463733373432453645363535373438333138
```

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```
343236433735363532303439343634343230353236353631363436353732323035333445333233343333333234313334383430313031383530394130303030303034313030303031303038313031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer. Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D617274636172642D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101850 9A000000410000100018101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746361726422D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101850 9A000000410000100018101000000</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">7F8F580DA1038001018206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
```

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```
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A737469A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 3E3746384635383044413130333830303130313832303634 31
353034393546344634423930303 3C2F4F7574075744150445 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E8206A150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the
A00000041000010001 card application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
```


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```
  <invocationType>CALL</invocationType>
  <description>Authenticate the InternalCert DID. This, combined with
MangExternalCert, shall provide us with management
     permissions to update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D69656333A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303144374639303142313941313137383030313031413130323830303038 32
3043343936453734363537323645363136433433363537323734383330303030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A737464343A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313031413130323830303038323043343936453734363537323645 36
313643343336353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E820641504954F4B</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800101A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
```

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```
20203C4F757470757441504455 3E3746393031433043413130323830303038323036343135303
43935463446344239303030 3C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F757470757441504455 3E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert DID. This, combined with
     MangExternalCert, shall provide us with management permissions to
update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the MangExternalCert DID. This, combined with
InternalCert, shall provide us with management
     permissions to update the certificate.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>18</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504455 3E30304332
303030303030303032313746393031423144413131423830303130314131303230383030303832
313034443631364536373435373837343635373236453631364334333635373237343833303030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032313746393031
423144413131423830303130314131303238303030383231303444363136453637343537383837
343635373236453631364334333635373237343833303030303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800101A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA1028000820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C52657375 6C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E37463930314330434131303238303030383232303634313530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>18</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574075744150445 3E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA10280008 2064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
MangExternalCert DID. This, combined with
     InternalCert, shall provide us with management permissions to update
the certificate.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008 2064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to create the A00000041000020001 application. Ensure
that card applications can only be created
     when connected to the Alpha card application.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F6182022BA18202278001018109A0000004100002000 1A2820215
301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301F800D41
7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D656444617461
A10F830D446174615365744465C657465A2038101FF3021800D417574686F72697A6174696F
6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3028801444696666657265 6E7469616C49
64656E74697479A10B85094449444372656 17465A2038101FF3028801444696666657265 6E74
69616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F6E6E65
6374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101FF302D
800F436172644170706C69636174696F6EA1158213436172644170706C69636174696F6E4C69
7374A2038101FF302E800A436F6E6E656374696F6EA11B8119436172644170706C6963617469
6F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B8119436172
644170706C69636174696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374
696F6EA11D811B436172644170706C69636174696F6E537461727453657373696F6EA2038101
FF</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000 02317F8F6182022BA18202278001018109A0000004100002000 1A
2820215301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301
F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616
D656444617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D65644
4617461A10F830D446174615365744465C657465A2038101FF3021800D417574686F72697A6
174696F6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616
C4964656E74697479A10985074449444C697374A2038101FF3028801444696666657265 6E746
9616C4964656E74697479A10B85094449444372656 17465A2038101FF3028801444696666657
2656E7469616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436
F6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A203810
1FF302D800F436172644170706C69636174696F6EA1158213436172644170706C69636174696
F6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B8119436172644170706C696
36174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B811
9436172644170706C69636174696F6E456E6453657373696F6EA2038101FF3030800A436F6E6
E656374696F6EA11D811B436172644170706C69636174696F6E537461727453657373696F6EA
2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820561A182055DA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818205003C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030323331374638463631383230323242413138323032323738303031303138
3130394130303030303034313030303032303030314132383230323135333031463830303934
4536313644363536343434363137343631413131304438333042343436313734363135333637
3434433639373337344132303338313031464633303146383030444341373537343638364637
3236393741363137343639364636454131303938363037343134333443344336393733373441
3230333831303146463330323138303039344536313644363536343434363137343631413130
4638333044343436313734363135333635373434333732363536313734363541323033383130
3146463330323138303039344536313644363536343434363137343631413130463833304434
3436313734363135333635373434343635364336353734363541323033383130314646333032
3138303044343137353734363836463732363937413631373436393636364541313042383630
3934313433344334446436363436393636373941323033383130314646333032363830313434
3436393636363636353732363536453734363936313643343936343635364537343639373437
3941313039383530373434343934343443363937333734413230333831303146463330323838
3031343434363936363636363537323635364537343639363136433439363436353645373436
3937343739413130423835303934343439343434333732363536313734363541323033383130
3146463330323838303134343436393636363636353732363536453734363936313643343936
3436353645373436393734373941313042383530393434343934343434363536433635373436
3541323033383130314646333032423830304134333646364536453635363337343639364636
4541313138383131363433363137323634343137303730364336393633363137343639364636
4534333646364536453635363337344132303338313031464633302443830304634333631373
3236343431373037303643363936333631734363936463645413131353832313334333631373
3236343431373037303643363936333631734363936463645344336393733373441323033383
3130314646333032453830304134333646364536453635363337343639364636454131314238
3131393433363137323634343137303730364336393633363137343639364636453434363937
3336333646364536453635363337344132303338313031464633302453830304134333646364
4536453635363337343639364636454131314238313139343336313732363434313730373036
4336393633363137343639364636453435364536343533363537333733363936463645413230
3338313031464633303330383030413433364636453645363536333734363936463645413131
4438313142343336313732363434313730373036433639363336313734363936463645353337
3436313732373435333635373337333639364636454132303338313031464630303030 3C2F49
6E70757441504455F3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820510A1820504808205003C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030343330303030303030303233313746
384636313832303232424131383230323237383030313031383130394130303030303030343130
303030323030303141323832303231353330314638303030344536313644363536343434363 1
373436314131304438333042343436313734363135333635373434433639373337344132303 3
383130314646333031463830304434313735373436383646373236393741363137343639364 6
364541313039383630373431343334433443363937333734413230333831303146463330323 1
383030393445363136443635363434343631373436314131304638333044343436313734363 1
353336353734343337323635363137343635413230333831303146463330323138303039344 5
363136443635363434343631373436314131304638333044343436313734363135333635373 4
343436353643363537343635413230333831303146463330323138303044343137353734363 8
364637323639374136313734363936463645413130423836303934313433344334436463634
363936363739413230333831303146463330323638303134343436393636363636353732363 5
364537343639363136433439363436353645373436393734373941313039383530373434343 9
343434433639373337344132303338313031464633302383830313434343639363636363 5
373236353645373436393631364334393634363536457343639373437394131304238353039
343434393434343337323635363137343635413230333831303146463330323838303134343 4
363936363636363537323635364537343639363136433439363436353645373436393734373 9
413130423835303934343934343434363536433635373436354132303338313031464633303
324238303041343364636453645365363337343639364636454131313838313136343336 1
373236343431373037303643363936333631373436393646364541333646364536453363 3
373441323033383130314646333032443830304634333631373236343431373037303643363 9
363336313734363936463645413131353832313334333631373236343431373037303643363 9
363336313734363936463645344336393733373441323033383130314646333032453803041
343336463645364536353633373436393646364541313142383131393433363137323634343 1
373037303643363936333631373436393646364534343639373336333646364536453633 3
373441323033383130314646333032453830304134333646364536453653633373436393646
364541313142383131393433363137323634343137303730364336393633363137343639364 6
364534353645363435333635373337333639364636454132303338313031464633303330383 0
304134333646364536453635363337343639364636454131313443831314234333631373236343
343137303730364336393633363137343639364636453533373436313732373435333635373 3
373336393646364541323033383130314646303030303C2F496E707574415044553E0A3C2F6E
73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```


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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002317F8F6182022BA18202278001018109A00000041000020001A
2820215301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301
F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616
D656444617461A10F830D44617461536574437265617465A2038101FF302180094E616D65644
4617461A10F830D4461746153657444656C657465A2038101FF3021800D417574686F72697A6
174696F6EA10B860941434C4D6F64696679A2038101FF3026801444696666657572656E7469616
C4964656E74697479A10985074449444C697374A2038101FF3028801444696666572656E746
9616C4964656E74697479A10B85094449444437265617465A2038101FF3028801444696666657
2656E7469616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436
F6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A203810
1FF302D800F436172644170706C69636174696F6EA11582134361726441707 06C69636174696
F6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696
36174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B811
9436172644170706C69636174696F6E456E6453657373696F6EA2038101FF3030800A436F6E6
E656374696F6EA11D811B436172644170706C6963617469 6F6E537461727453657373696F6EA
2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F6182022BA18202278001018109A000000410000200
01A2820215301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF
301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E
616D656444617461A10F830D44617461536574437265617465A2038101FF302180094E616D65
6444617461A10F830D4461746153657444656C657465A2038101FF3021800D417574686F7269
7A6174696F6EA10B860941434C4D6F64696679A2038101FF3026801444696666657572656E7469
616C4964656E74697479A10985074449444C697374A2038101FF3028801444696666572656E
7469616C</encodedData>
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF4964656E74697479A10B8509444944437265617465A203
8101FF3028801444696666657265 6E7469616C4964656E74697479A10B850944494444656C65
7465A2038101FF302B800A436F6E6E656374696F6EA1188116436172644170706C6963617469
6F6E436F6E6E656374A2038101FF302D800F43617264417070 6C69636174696F6EA115821343
6172644170706C69636174696F6E4C697374A2038101FF302E800A436F6E6E656374696F6EA1
1B81194361726441707 06C69636174696F6E446973636F6E6E656374A2038101FF302E800A43
6F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E456E6453657373696F6E
A2038101</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C2000033FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F6220821E4150495F505245524551554953495445 5F4E4F545F53
41544953464945449000</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F6220821E4150495F505245524551554953495445 5F4E4F545F53415449
53464945449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012DA1820129A03E801C536D617274636172645369646 52D
54432D536573736F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181E63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D612 3E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4E7574707574415044553E374638463632323038323145343135303439354635303532
343535323435353135353439353334393534343535463445344635343546353343135343439
353334363439343534343930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>319</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81F4A181E98081E63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636323230383231453431
3530343935463530353234353532343535313535343935333439353434353546344534463534
3546353334313534343935333436343934353434393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D697452657370 6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F6220821E4150495F505245524551554953495445 5F4E4F545F53415449
53464945449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to create the
A00000041000020001 application. Ensure that card
     applications can only be created when connected to the Alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F6220821E4150495F505245524551554953495445 4F4E4F545F53
4154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the A00000041000010001 application. Ensure
that card applications can only be deleted
     when connected to the Alpha card application.</description>
  <encodedData
type="xs:hexBinary">7F8F6310A10E8001018109A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F6310A10E8001018109A00000041000010001 0000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
```

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```
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313437463846363331304131304538303031303138313039413030303030
3034313030303031303030313030303030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384636
3331304131304538303031303138313039413030303030303431303030303031303030313030303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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```
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F6310A10E8001018109A0000004100001000100000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F6310A10E8001018109A000000410000100010</en
codedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F6420821E4150495F505245524551554953495445 4F4E4F545F53
4154495346494545449000</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F6420821E4150495F505245524551554953495445 4F4E4F545F53415449
53464945449000</OutputAPDU>
     </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012DA1820129A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181E63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384636343230383231453431353034393546353035332
34353532343535313535343935333439353434353546344534463534354635333431353434393
353334363439343534343930303 03C2F4F7574075744150445 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81F4A181E98081E63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746384636343230383231453431
353034393546353035323435353234355351355343935333439353434353546344534463534
354635333431353434393533343634393435343439303030 3C2F4F7574075744150445 53E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F6420821E4150495F505245524551554953495445 5F4E4F545F53415449
53464945449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to delete the
A00000041000010001 application. Ensure that card
     applications can only be deleted when connected to the Alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F6420821E4150495F505245524551554953495445 5F4E4F545F53
4154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the A00000041000010001 card application as
local DIDs were authenticated.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>21</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746568683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E733A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>344</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303039746384635
3930354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C20000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F757470757441504455453E374638463541303838323036343135303439354634463442393030
30303C2F4F757470757441504455453E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463541303838323036343 1
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the
A00000041000010001 card application as local DIDs
     were authenticated.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to create the A00000041000020001 application with an
invalid service name in the access control
     list. The service name of the first access rule is 'Connectionn'.
Ensure that an invalid service name shall generate
     an error.</description>
  <encodedData
type="xs:hexBinary">7F8F6140A13E8001008109A0000004100002000 1A22E302C800B436F
6E6E656374696F6E6EA11881164361726441707 06C69636174696F6E436F6E6E656374A20381
01FF</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000447F8F6140A13E8001008109A0000004100002000 1A22E302C8
00B436F6E6E656374696F6E6EA11881164361726441707 06C69636174696F6E436F6E6E65637
4A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820187A1820183A057801C436C69656E7441707 0536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707 0536964652D54432D53657373696F6E49442D32818201263C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030343437463846363134304131334538303031303038313039413030303030
303034313030303032303030314132324533303243383030423433364636453635363337
```

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```
343639364636453645413131383831313634333631373236343431373037303643363936333631373436393646363645364536453633333441323033383130314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820136A182012A808201263C6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A7363686568D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E3030433230303030303030303034343746384636313430432133453830303130303831303941303030303030343130303030323030303141323245333032433830304234333646364536453635363337343639364636453645364541313138383131363433363137323634343137303730364336393633363137343639364636453433336465363536353633373441323033383130314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```


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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000447F8F6140A13E8001008109A00000041000020001A22E302C8
00B436F6E6E656374696F6E6EA11881164361726441707 06C69636174696F6E436F6E6E65637
4A2038101FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000447F8F6140A13E8001008109A00000041000020001A22E30
2C800B436F6E6E656374696F6E6EA118811643617 2644170706C69636174696F6E436F6E6E65
6374A2038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F621982174150495F494E434F52524543545F504152414D455445
529000</encodedData>
</invAspect>
<invAspect>
  <refId>364</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F621982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011FA182011BA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D83C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437233A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636323139383231373431353034393546343934
343334463532353234353433353435463530343135323431344431353534343535323930303030
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636323139383231373431
353034393546343934453433344635323532343534333534354635303431353234313444343535
353434353532393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F621982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to create the
A00000041000020001 application with an invalid
     service name in the access control list. The service name of the first
access rule is 'Connectionn'. Ensure that an
     invalid service name shall generate an error.</description>
  <encodedData
type="xs:hexBinary">7F8F621982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to create the A00000041000020001 application with an
invalid action name in the access control
     list. The action name of the first access rule is 'DSIRead'. 'DSIRead'
is a valid action name but not in the
     'connectionServiceAction' choice field. Ensure that an invalid action
name shall generate an error.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F6130A12E8001008109A00000041000020001A21E301C800A436F
6E6E656374696F6EA1098107445349526561 64A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000347F8F6130A12E8001008109A00000041000020001A21E301C8
00A436F6E6E656374696F6EA1098107445349526561 64A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820167A1820163A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818201063C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A323383732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030333437463846363133304131324538303031303038313039413030303030
303034313030303032303030314132314533303143383030413433364636453645363536333734
3436393646364541313039383130373434353334393532363536313634413230333831303146
46303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>375</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820116A182010A808201063C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504 4553E3030433230303030303033343746
384636313330413132453830303130303831303941303030303030343130303030303230303031
413231453330314338303041343336463645364536353633373436393646364541313039383 1
303734343533343935323635363136344132303338313031464630303030 3C2F496E70757441
5044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000347F8F6130A12E8001008109A0000004 1000020001A21E301C8
00A436F6E6E656374696F6EA1098107445349526561 64A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000347F8F6130A12E8001008109A00000041000020001A21E30
1C800A436F6E6E656374696F6EA1098107445349526561 64A2038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F62198217415049 5F494E434F52524543545F504152414D455445
529000</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F62198217415049 5F494E434F52524543545F504152414D455445529000
</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011FA182011BA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181D83C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
```

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3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636323139383231373431353034393546343934
3433344635323532343534333534354635303431353234313444343535343435353239303030
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636323139383231373431
353034393546343934453334346353235323435343335343546353034313532343134443435
353434353532393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F621982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to create the
A00000041000020001 application with an invalid
      action name in the access control list. The action name of the first
access rule is 'DSIRead'. 'DSIRead' is a valid
      action name but not in the 'connectionServiceAction' choice field.
Ensure that an invalid action name shall generate
      an error.</description>
  <encodedData
type="xs:hexBinary">7F8F621982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to create the A00000041000020001 application with an
unknown DID name in the access control list.
      The DID name of the first access rule is 'UnknownDID'. Ensure that an
unknown DID shall return an error.</description>
  <encodedData
type="xs:hexBinary">7F8F6151A14F8001008109A00000041000020001A23F303D800A436F
6E6E656374696F6EA11881164361726441707 06C69636174696F6E436F6E6E656374A215A013
800A556E6B6E6F776E444944A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>

  <InputAPDU>00C200000000557F8F6151A14F8001008109A0000004100002000 1A23F303D8
00A436F6E6E656374696F6EA11881164361726441707 06C69636174696F6E436F6E6E656374A
215A013800A556E6B6E6F776E444944A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201A9A18201A5A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874747 03A2F2F536D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201483C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030303535374638463631353141313446383030313030383130394130303030
303034313030303032303030314132334633303344383030413433336463645364536336337
343639364636454131313838313136343363137323634343137303730364336393633363137
343639364636453433364636453645363536333734413231354130313338303041353536453
623645364637373645343434393434413130323830303038323031303030303030303C2F496E70
7574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>24</annexAId>
```


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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820158A182014C808201483C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035353746
384636313531413134463830303130303831303941303030303030343130303030323030303031
413233463330334438303041343336463645364536353633373436393646364541313138383831
313634333631373236343431373037303643363936333631373436393646364543333646364645
364536353633373441323135413031333830304135353645364236453646373736453434343439
343441313032383030303832303130303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C20000000557F8F6151A14F8001008109A00000041000020001A23F303D8
00A436F6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A
215A013800A556E6B6E6F776E444944A10280008201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>24</annexAId>
  <layer>ECI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000557F8F6151A14F8001008109A00000041000020001A23F30
3D800A436F6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E6563
74A215A013800A556E6B6E6F776E444944A102800082010000</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>395</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F621982174150495F494E434F52524543545F504152414D455445
529000</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F621982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011FA182011BA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D83C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636323139383231373431353034393546343934
3433446353235323435343335343546353034313532343134443435353434353532393030
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A18DB8081D83C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F75747075744153044553E3746384636323139383231373431
353034393546343934453433344635323532343534333534354635303431353234313444343435
353434353532393030303C2F4F75747075744153044553E0A3C2F6E73323A5472616E736D6974
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F621982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
     </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to create the
A0000041000020001 application with an unknown
      DID name in the access control list. The DID name of the first access
rule is 'UnknownDID'. Ensure that an unknown
      DID shall return an error.</description>
  <encodedData
type="xs:hexBinary">7F8F621982174150495F494E434F525245435455F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the Alpha card application. The next test
requires no open Alpha card application
      connections.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

        <SlotHandle>00</SlotHandle>

         <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
```

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```
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
```

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```
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>25</annexAId>
```


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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7074643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A4469736361 6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
```

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```
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E65637452657370F6F736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the Alpha
card application. The next test requires no
      open Alpha card application connections.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to disconnect from the Alpha card application. Ensure
that an invalid connection handle shall
      return an error.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800109</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>
```

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```
        <SlotHandle>FF</SlotHandle>

        <InputAPDU>00C200000000097F8F5905A1038001090000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172744636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D22757269
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E46463C2F536C6F7448616E646C653E0A20202020203C496E707574415044553E30304332
303030303030303030393746384635393035413130333830303130393030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E46463C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130393030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>FF</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001090000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010900</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A1982174150495F494E434F52524543545F504152414D455445
529000</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>26</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F5A1982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011FA182011BA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D83C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A2020202020C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445553E3746384635413139383231373431353034393546343934
34333446353235323431343333534354635303431353234313444343535343435353239303030
3C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413139383231373431
353034393546343934453433344635323532343534333534354635303431353232343134443435
353434353532393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F5A1982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to disconnect from
the Alpha card application. Ensure that an
     invalid connection handle shall return an error.</description>
  <encodedData
type="xs:hexBinary">7F8F5A1982174150495F494E434F52524543545F504152414D455445
52</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Connect to the Alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E3234333241348401018
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>450</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A2020202034436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A2020202034946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>
```

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```
      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C52657375743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820199A1820195A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201383C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61233E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030344437463846353734394131343741303432413131423830313936383
343734373033413246324637333644363137323734363336313732363432443638364637333
343245364536353734383331383432364337353835323034393436343432303532363536313
343635373232303533344533323334333333323431333438343031303138353036453832383
314331313730323831303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820148A182013C808201383C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303034443746
384635373439413134374130343241313142383031393638373437343730334132463246333
364436313732373436333631373236343244363836463733373432453645363537343833313
343236433735363532303439343634343230353236353631363436353732323035333445333
333433333332343133334383430313031383530364538323838314331313730323831303130
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C1170281010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004D7F8F5749A147A042A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018506E82881C1170281010000</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130303832303634 31
3530343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>471</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130303832303634313530343935463446344239303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D697452657370 6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Connect to
the Alpha card application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Ensure the CardApplicationList only contains
the Alpha card application.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C2000000097F8F5F05A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463546303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>478</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
463035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>28</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5F05A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F601FA115A0130406E8288IC117020409A0000004100001000182
064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F601FA115A0130406E82881C117020409A000000410000100018206415
0495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012BA1820127A03E801C536D617274636172645369646652D
```

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```
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181E43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636303146413131354130313330343036453832 38
383143313137303230343039413030303030303431303030303130303031383230363431353 0
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81F2A181E78081E43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636303146413131354130
313330343036453832383831433131373032303430394130303030303034313030303031303 0
303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F601FA115A0130406E82881C117020409A000000410000100018206415
0495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Ensure the
CardApplicationList only contains the Alpha
      card application.</description>
  <encodedData
type="xs:hexBinary">7F8F601FA115A0130406E82881C117020409A0000004100001000182
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the Alpha card application.
Transmit on the IFDProxy shall be invoked to
      transmit the CardApplicationDisconnect APDU to the Alpha card
application. After transmit has completed, disconnect
      shall be invoked on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030303937463846353930354131303338303031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
```

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```
6C653E0A202020203C496E707574415044553E303043323030303030303030303030393746384635
393035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>29</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463541303838323036343131
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>
```

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```
      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73233A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A2020202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E656374526565
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application. Transmit
     on the IFDProxy shall be invoked to transmit the
CardApplicationDisconnect APDU to the Alpha card application. After
     transmit has completed, disconnect shall be invoked on the
IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
```

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```
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E74657874 20786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732 3A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E746578744861 6E646C653E0A3C2F6E73323A52656C
65617365436F6E74657874 3E</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>524</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E74657874743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
```

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```
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370 6F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657370 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
787452657370 6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F2808810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>534</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
This shall automatically invoke
     ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>535</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the trusted channel on the smartcard host
side.</description>
  <encodedData
type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

B.4 Application management - second application data structure construction

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements the ENVELOPE APDU) as described in Annex A.1.4, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.4.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>CALL</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
        side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
        client application side.</description>
      <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
    </invAspect>
    <invAspect>
      <refId>2</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>RETURN</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
        side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
        client application side.</description>
      <encodedData
    type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
    657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
    49442D3182064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>3</refId>
      <annexAId>1</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>initialize</method>
      <invocationType>CALL</invocationType>
      <description>Initialise the SAL Proxy.</description>
```

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```
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the Alpha card application. This
shall first invoke connect on the IFDProxy. In
     turn connect shall be invoked on the IFD layer on the client side.
After connect has completed, transmit on the
     IFDProxy shall be invoked to transmit the CardApplicationConnect APDU
to the Alpha card application. The IFD Name
     shall need to be replaced with an actual reader name when comparing the
results to results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369646 52D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A2020202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A2020202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A2020202020436368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A2020202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F436368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
```

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```
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D6172746361726453696465 2D5443
2D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787 4526573706F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787 4526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787452657370 6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

      <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810 821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
    IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
```

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```
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361722642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E733323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A73368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820199A1820195A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32819687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818201383C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030344437463846353734394131343741303432413131423830313936383 7
343734373033413246324637336443631373237343633363137323634324436383646373337
343245364536353734383331383432364337353635323034393436343432303532363536313 6
343635373232303533344533323334333333323431333438343031303138353036453832383 8
3143313137303238313031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820148A182013C808201383C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F74486C6E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303034443746
384635373439413134374130343241313142383031393638373437343730334132463273 3
364436137323734363336313732363432443638364637333734324536453635373438333138
343236433735363532303439343634343230353236353631363436353732323035333445332
333433333332343133334383430313031383530364538323838314331313730323831303130
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

     <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004D7F8F5749A147A042A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018506E82881C1170281010000</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
```

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```
20203C4F757470757441504455 3E3746384635383044413130333830303130303832303634313
5303439354634463442393030303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746384635383044413130333830
303130303832303634313530343935463446344639303030 3C2F4F757470757441504455 3E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the Alpha card application. This shall first
     invoke connect on the IFDProxy. In turn connect shall be invoked on the
IFD layer on the client side. After connect
     has completed, transmit on the IFDProxy shall be invoked to transmit
the CardApplicationConnect APDU to the Alpha
     card application. The IFD Name shall need to be replaced with an actual
reader name when comparing the results to
     results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application DID list
of global DIDs. Ensure the CardApplicationList only contains
     the Alpha and card holder (A00000041000010001) card
applications.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463546303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
463035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5F05A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F601FA115A0130406E82881C117020409A0000004100001000182
064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F601FA115A0130406E82881C117020409A000000410000100018206415
0495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012BA1820127A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181E43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636303146413131354130313330343034303645383238
3831433131373032303430394130303030303034313030303031303030313832303634313530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81F2A181E78081E43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636303146413131354130
313330343036453832383831433131373032303430394130303030303034313030303031303030
303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F601FA115A0130406E82881C117020409A0000004100001000182064150
495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application DID list of global DIDs. Ensure
     the CardApplicationList only contains the Alpha and card holder
(A00000041000010001) card applications.</description>
  <encodedData
type="xs:hexBinary">7F8F601FA115A0130406E82881C117020409A0000004100001000182
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Pre-condition: Ensure the A00000041000020001 card application
does not exist at the following location:
      IFD Name: Blue IFD Reader SN2432A4; Slot: 1. An error response
(API_INCORRECT_PARAMETER) is expected.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053E323433324134840101
8509A000000410000200018101000</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053E32343332413
48401018509A000000410000200018101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303035303746384635373443413134414130343541313142383031393638373
3437343730334132463246373336443631373237343633363137323634324436383646373337
3432453645363537343833313834323643375363532303439343634343230353236353631363
3436353732323035333445333233343333333234313334383430313031383530394130303030
3030343130303030323030303138313031303030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246733
364436313732373436333631373536343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303030230303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
```

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```
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100002000181010000 0</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332
41348401018509A0000004100002000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F581982174150495F494E434F52524543545F504152414D455445
529000</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F581982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011FA182011BA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181D83C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383139383231373431353034393546343934 45
343334463532353234353433353435463530343135322431344434353534343539303030
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383139383231373431
353034393546343934453433344635323532343534333534354635303431353234313444343 5
```

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```
353434353532393030303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F581982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
A00000041000020001 card application does not
     exist at the following location: IFD Name: Blue IFD Reader SN2432A4;
Slot: 1. An error response
     (API_INCORRECT_PARAMETER) is expected.</description>
  <encodedData
type="xs:hexBinary">7F8F581982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the A00000041000020001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F6182022BA18202278001008109A00000041000020001A2820215
301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301F800D41
7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D656444617461
A10F830D4461746153657444656C657465A2038101FF3021800D417574686F72697A6174696F
6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3028801444696666657265 6E7469616C49
64656E74697479A10B85094449444374265617465A2038101FF3028801444696666657265 6E74
69616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F6E6E65
6374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101FF302D
```


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800F436172644170706C69636174696F6EA1158213436172644170706C69636174696F6E4C69
7374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C6963617469
6F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B8119436172
644170706C69636174696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374
696F6EA11D811B436172644170706C69636174696F6E537461727453657373696F6EA2038101
FF</encodedData>
</invAspect>
<invAspect>
<refId>80</refId>
<annexAId>5</annexAId>
<layer>IFD</layer>
<layerName>IFD Proxy</layerName>
<method>transmit</method>
<invocationType>CALL</invocationType>
<description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
<encodedData>
<ns2:Transmit>

<SlotHandle>00</SlotHandle>

<InputAPDU>00C200000002317F8F6182022BA18202278001008109A00000041000020001A
2820215301F80094E616D656444617461A10D830B4461746153657 44C697374A2038101FF301
F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616
D6564446174 61A10F830D4461746153657443726561746 5A2038101FF302180094E616D65644
4617461A10F830D4461746153657444656C657465A2038101FF3021800D417574686F72697A6
174696F6EA10B860941434C4D6F64696679A2038101FF3026801444696666657 2656E7469616
C4964656E74697479A1098507444944C697374A2038101FF3028801444696666657 2656E746
9616C4964656E74697479A10B85094449444376561746 5A2038101FF3028801444696666657
2656E7469616C4964656E74697479A10B85094449444656C657465A2038101FF302B800A436
F6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A203810
1FF302D800F436172644170706C69636174696F6EA1158213436172644170706C69636174696
F6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B8119436172644170706C696
36174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B811
9436172644170706C69636174696F6E456E6453657373696F6EA2038101FF3030800A436F6E6
E656374696F6EA11D811B436172644170706C69636174696F6E537461727453657373696F6EA
2038101FF0000</InputAPDU>
</ns2:Transmit>
</encodedData>
</invAspect>
<invAspect>
<refId>81</refId>
<annexAId>5</annexAId>
<layer>TC</layer>
<layerName>TC Proxy</layerName>
<method>write</method>
<invocationType>CALL</invocationType>
<description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
from the previous IFD Proxy call.</description>
<encodedData
type="xs:hexBinary">7F9F31820561A182055DA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818205003C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043

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323030303030303033331374638463631383230323242413138323032323738303031303038
313039413030303030303431303030303230303031413238323032313533303146383030393 4
453631364436353634343436313734363141313044383330423434363137343631353336353 7
343443363937333734413230333831303146463330314638303044343137353734363836463 7
323639374136313734363936463645413130393836303734313433344334433643937333734 41
323033383130314646333032313830303934453631364436353634343436313734363141313 0
463833304434343631373436313533336353734343337323635363137343635413230333831 30
314646333032313830303934453631364436353634343436313734363141313046383330443 4
343631373436313533336353734343436353643363537343635413230333831303146463330 32
313830304434313735373436383646373236393741363137343639364636454131304238363 0
393431343334433444364636343639363637394132303338310314646330323638303134343 4
343639363636363635373236353645373436393631364334393634363536453734363937343 7
394131303938353037343434393434344336393733373441323033383130314646333032383 8
303134343436393636363636353732363536453734363936313643343936343635364537343 6
393734373941313042383530393434343934343433373236353631373436354132303338313 0
314646333032383830313434343639363636363635373236353645373436393631364334393 6
343635364537343639373437394131304238353039343434393434343436353643363537343 6
354132303338313031464633303242383030413433336463645364536363373436393646363 6
454131313838313136343336313732363434313730373036433639363336313734363936463 6
453433364636453645363536333734413230333831303146463330324438303046343336313 7
323634343137303730364336393633363137343639364636454131313538323133343336313 7
323634343137303730364336393633363137343639364636454344336393733373441323033 38
313031464633303245383030413433336463645364536353633373436393646364541313142 38
313139343336313732363434313730373036433639363336313734363936463645343436393 7
333633364636453645363536333734413230333831303146463330324538303046343336463 6
453645363536333734363936463645413131423831313934333631373236343431373037303 6
433639363336313734363936463645343536453634353336353733373336393646364541323 0
333831303146463330333038303041343336463645364536353633373436393646364541313 1
443831314234333631373236343431373037303643363936333631373436393646364535333 7
343631373237343533363537333733363936463645413230333831303146463030303C2F49
6E707574415044553E0A3C2F6E733233A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820510A1820504808205003C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303233313746
384636313832303232424131383230323237383030313030383130394130303030303030343130
303030323030303141323832303231353330314638303039344536313644363536363434343631
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383030393445363136443635363434343631373436314131304638333044343436313734363631
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343434393434343337323635363137343635413230333831303146463330323838303134343434
363936363636363537323635364537343639363136433439363436353645373436393734373941
413130423835303934343439343434343635364336353734363541323033383130314646333034
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373236343431373037303643363936333631373436393646364541313138383131363433363137
373244132303338313031464633303244383030463433363137323634343137303730364336393646
363336313734363936463645413131353832333343336313732363434313730373036433639
363336313734363936463645443363937337344132303338313031464633303245380304104
343336463645364536353633373436393646364541313142383131393433363137323634343137
373037303643363936333631373436393646364541313138383131363433363137323634343137
373244132303338313031464633303245380304134333646364536453635363337343639364
364541313142383131393433363137323634343137303730364336393646364541313138383131
364534353645363435333635333733363936463645413230333831303146463330333038304
304134333646364536453635333733363936463645413131443831314234333631373236343431
373037303643363936333631373436393646364535333734363137323734353336353733
373336393646364541323033383130314646303030303C2F496E707574415044553E0A3C2F6E
73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002317F8F6182022BA18202278001008109A00000041000020001A
```

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```
2820215301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301
F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616
D656444617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D65644
4617461A10F830D44617461536574445 6C657465A2038101FF3021800D417574686F72697A6
174696F6EA10B860941434C4D6F64696679A2038101FF3026801444696666657 2656E7469616
C4964656E74697479A10985074449444C697374A2038101FF3028801444696666657 2656E746
9616C4964656E74697479A10B85094449444374265617465A2038101FF3028801444696666657
2656E7469616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436
F6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A203810
1FF302D800F436172644170706C69636174696F6EA1158213436172644170706C69636174696
F6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B8119436172644170706C696
36174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B811
9436172644170706C69636174696F6E456E6453657373696F6EA2038101FF3030800A436F6E6
E656374696F6EA11D811B436172644170706C69636174696F6E537461727453657373696F6EA
2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F6182022BA18202278001008109A000000410000200
01A2820215301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF
301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E
616D656444617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D65
6444617461A10F830D44617461536574445 6C657465A2038101FF3021800D417574686F7269
7A6174696F6EA10B860941434C4D6F64696679A2038101FF3026801444696666657 2656E7469
616C4964656E74697479A10985074449444C697374A2038101FF3028801444696666657 2656E
7469616C</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```


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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF4964656E74697479A10B85094449444437265617465A203
8101FF302880144469666666572656E7469616C4964656E74697479A10B850944494444656C65
7465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441707 06C6963617469
6F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174696F6EA115821343
6172644170706C69636174696F6E4C697374A2038101FF302E800A436F6E6E656374696F6EA1
1B81194361726441707 06C69636174696F6E446973636F6E6E656374A2038101FF302E800A43
6F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E456E6453657373696F6E
A2038101</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C2000033FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F620882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F620882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A737464313A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384636323038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563383234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E3746384636323038383230363431
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F620882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the
A00000041000020001 application.</description>
  <encodedData type="xs:hexBinary">7F8F620882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the newly created card application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
```

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```
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A000000410000200018101000</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D696563323A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E0303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030353037463846353734434131344141303435413131423830313936383
343734373033413246324637333644363137323734363336313732363432443638364637333
343245364536353734383331383432364337353635323034393436343432303532363536313
343635373232303533344533323334333333323431333438343031303138353039413030303
303034313030303032303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>103</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E7075744150445 3E303043323030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463273 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303032303030 31
383130313030303030303C2F496E7075744150445 3E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100002000181010000 0</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
```

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```
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100002000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

     <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
```

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```
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130313832303634 31
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the newly
created card application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
 <description>Retrieve the A0000041000020001 card application access rules.
Ensure that the ACL is the same as the one
      specified in the CardApplicationCreate call.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A0000004100002000 1</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100002000 10000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>117</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504453E30304332
303030303030303032383746393031443234413132323830303130313831313343334313532
343432443431353035303443343934333431353434393446344541323042383230394130303
303030343130303030323030303031303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
443234413132323830303130313831313034333431353234343244343135303530344433934
```

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```
333431353434393446344541323042383230394130303030303034313030303032303030313030
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A00000041000020001 0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010181104341524 42D4150504C494341
54494F4EA20B8209A00000041000020001 00</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820225A1820219A0820215301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666657265 6E7469616C4964656E74697479A109850744494 44C69
```

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```
7374A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944
6100</encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">437265617465A2038101FF3028801444696666657265 6E7469616C49
64656E74697479A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F
6EA1188116436172644170706C6963617469F6E436F6E6E656374A2038101FF302D800F4361
72644170706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A203
8101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E4469
73636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B811943617264417070
6C69636174696F6E456E64536573696F6EA2038101FF3030800A436F6E6E656374696F6EA1
6100</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">1D811B436172644170706C69636174696F6E537461727453657373696F6EA2038101FF82064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820225A1820219A0820215301F80094E616D656444617461A10D830B
446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109860741
434C4C697374A2038101FF302180094E616D656444617461A10F830D4461746153657444656C657465
617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C657465
A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A20381
01FF3026801444696666665726 56E7469616C4964656E74697479A10985074449444C697374A2
038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944437265
617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85094449
4444656C657465A2038101FF302B800A436F6E6E656374696F6EA1188116436172644170706C
69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174696F6E
A1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A436F6E6E6563
74696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E656374A2038101FF
302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E456E645365
7373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C6963
6174696F6E537461727453657373696F6EA2038101FF82064150495F4F4B9000</OutputAPDU
>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182053CA1820538A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818204F43C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031453832303232354131383230323139413038
323032313533303146383030393445363136443635363434343631373436314131304383330
42343436313734363135333635373434433639373337344132303383130314646333031463 8
```

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3030443431373537343638364637323639374136313734363936463645413130393836303734
3134333443344336393733373441323033383130314646333032313830303934453631364436
3536343434363137343631413130463833304434343631373436313533336353734343433373236
3536313734363541323033383130314646333032313830303934453631364436353634343436
3137343631413130463833304434343631373436313533336353734343436353643336353734436
3541323033383130314646333032313830304434313735373436383646373236393741363137
3436393646364541313042383630393431343334433444364636343639363637394132303338
3130314646333032363830313434343639363636363635373236353645373436393631364334
3936343635364537343639373437394131303938353037343434393434344336393733373441
3230333831303146463330323838303134343436393636363636353732363536453734363936
3136433439363436353645373436393734373941313042383530393434343934343433373236
3536313734363541323033383130314646333032383830313434343639363636363635373236
3536453734363936313643343936343635364537343639373437394131304238353039343434
3934343434363536433635373436354132303338313031464633303242383030413433364636
4536453635363337343639364636454131313838313136343336313732363434313730373036
4336393633363137343639364636454333646364536453635363337344132303831303146
4633303244383030463433363137323634343137303730364336393633363137343639364636
4541313135383231333433363137323634343137303730364336393633363137343639364636
4534433639373337344132303338313031464633303245383030413433364636453645363536
3337343639364636454131314238313139343336313732363434313730373036433639363336
3137343639364636453434363937333633364636453645363536333734413230333831303146
4633303245383030413433364636453645363536333734363936453413131423831313934
3336313732363434313730373036433639363336313734363936463645345364536345336
3537333733363936463645413230333831303146463330333038303041343336463645364536
3536333734363936463645413131443831314234333631373236343431373037303643363936
3336313734363936463645353337343631373237343533363537333733363936463645413230
3338313031464638323036343135303439354634463434393030303C2F4F7574707574415044
553E0A3C2F6E73323A5472616E736D69745265737065F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820504A18204F8808204F43C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F757470757441504455E3746393031453832303232
3541313832303231394130383230323135333031463830303934453631364436353634343436
3137343631413130443833042343436313734363135333635373434433639373337344132303
3338313031464633031463830304434313735373436383646373236393741363137343639363
4636454131303938363037343134333443344336393733373441323033383130314646333032
3138303039344536313644363536343434363137343631413130463833304434343631373436
3135333635373434333732363536313734363541323033383130314646333032313830303934
4536313644363536343434363137343631413130463833304434343631373436313533363537
3434343635364336353734363541323033383130314646333032313830044343137353734363
3836463732363937413631373436393646364541313042383630393431343334433444364636
3436393636373941323033383130314646333032363830313434343639363636363635373236
3536453734363936313643343936343635364537343639373437394131303938353037343434
3934343443363937333734413230333831303146463330323830313434343639363636363636
3537323635364537343639363136433439363436353645373436393734373941313042383530
3934343439343434333732363536313734363541323033383130314646333032383830313434
3436393636363636353732363536453734363936313643343936343635364537343639373437
3941313042383530393434343934343434363536436365373436354132303338313031464633
3032423830304134333646364536453635363337343639364636454131313838313136343336
3137323634343137303730364336393633363137343639364636454333646364536453635363536
3337344132303338313031464633032443830304634333631373236343431373037303643364
3936333631373436393646364541313135383231333433363137323634343137303730364336
3936333631373436393646364534433639373337344132303338313031464633032453830304
1343333646364536453635363337343639364636454131314238313139343336313732363434
3137303730364336393633363137343639364636453434363937333633364636453645363536
3337344132303338313031464633032453830304134333646364536453635363337343639364
4636454131314238313139343336313732363434313730373036433639363336313734363936
4636453435364536343533363537333733363936464636454132303338313031464633033303
3030413433364636453645363536333734363936464636454131314438313142343336313732
3434313730373036433639363336313734363936464636453533373436313732373435333635
3337333639364636454132303338313031464638323036343135303439354634463442393030
303C2F4F757470757441504455E0A3C2F6E73323A5472616E736D6974526573706F6E73653E
82064150495F4F4F4E</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820225A1820219A0820215301F80094E616D656444617461A10D830B
446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109860741
```

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```
434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574437265
617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C657465
A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A20381
01FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C697374A2
038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944437265
617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85094449
4444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441706C
69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174696F6E
A11582134361726441706C69636174696F6E4C697374A2038101FF302E800A436F6E6E6563
74696F6EA11B81194361726441706C69636174696F6E446973636F6E6E656374A2038101FF
302E800A436F6E6E656374696F6EA11B81194361726441706C69636174696F6E456E645365
7373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C6963
6174696F6E537461727453657373696F6EA2038101FF82064150495F4F4B9000</OutputAPDU
>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000020001 card application access rules. Ensure
     that the ACL is the same as the one specified in the
CardApplicationCreate call.</description>
  <encodedData
type="xs:hexBinary">7F901E820225A1820219A0820215301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944
437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85
0944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441
70706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174
696F6EA11582134361726441706C69636174696F6E4C697374A2038101FF302E800A436F6E
6E656374696F6EA11B81194361726441706C69636174696F6E446973636F6E6E656374A203
8101FF302E800A436F6E6E656374696F6EA11B81194361726441706C69636174696F6E456E
64536573736F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170706
6C69636174696F6E537461727453657373696F6EA2038101FF82064150495F4F4B</encodedD
ata>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000020001 card application DID list.
Ensure that the DID list is empty. A newly
     created card application should have an empty DID list.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
```

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```
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374639303131303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
3130354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C20000000097F901105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90120CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D3275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031323043413130324130303038323036343135530
343935463446344642393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>8</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A74643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A2020202033C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303132304341313032413
3030383230363431353034393546344634423930303033C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90120CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000020001 card application DID list. Ensure that
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```
      the DID list is empty. A newly created card application should have an
empty DID list.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000020001 card application data set
list. Ensure that the data set list is empty. A
      newly created card application should have an empty data set
list.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463731303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
```

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```
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA18EB38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A2020202036C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
313035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>158</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
```

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```
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323043413130324130303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637323043413130324130
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```


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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000020001 card application data set list. Ensure
      that the data set list is empty. A newly created card application
should have an empty data set list.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the internal certificate DID. The internal certificate
DID is used to verify that this is a valid
      smartcard. First create the DIDs then restrict the DID modification
permissions. The modification access rules refer
      to the Internal and External DIDs. One of these may not have yet been
created. This DID is actually a Simple
      Assertion DID, not an Client Application Asymmetric Internal
Authentication DID. This simplifies the test case.
      Ensure that multiple DIDs with the same name can exist in multiple card
applications.</description>
  <encodedData
type="xs:hexBinary">7F90138201C4A18201C0800101810C496E7465726E616C4365727482
072881C117030003A3028000A482019E301C800D43727970746F67726170686963A106840453
69676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A203
8101FF3020800D43727970746F67726170686963A10A840844656369706865726A20382010030
20800D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726
5E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F
67726170686963A111840F5665726966795369676E6174757265A203820100302880144469666
666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101FF302980
0D43727970746F67726170686963A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F4449444417574865
6E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>10</annexAId>
```


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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CA7F90138201C4A18201C0800101810C496E7465726E616C436
5727482072881C117030003A3028000A482019E301C800D43727970746F6772617068696A10
684045369676EA203820100301F800D417574686F72697A6174696F6EA109867741434C4C697
374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A2038
201003020800D43727970746F67726170686963A10A8408456E6369706865726A203820100302
1800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D4
3727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
66572656E7469616C4964656E74697479A1088506444944447657A2038101FF3027800D43727
970746F67726170686963A111840F566572696679536967 6E6174757265A2038201003028801
4446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101F
F3029800D43727970746F67726170686963A113841156657269667943657274696669636174 6
5A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444944417
57468656E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820493A182048FA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818204323C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965653A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303143413746393031333832303143344413138323031433038303031303138
3130433439364537343635373236453631364334333635373237343832303732383831433131
3730333030303341333032383030304134383230313945333031433830304434333732373937
3037343646363737323631373036383639363341313036383430343533363936373645413230
3338323031303033303146383030443431373537343638364637323639374136313734363936
4636454131303938363037343134333443344336393733373441323033383130314646333032
3038303044343337323739373037343646363737323631373036383639363341313041383430
3834343635363336393730363836353732413230333832303130303330323038303044343337
3237393730373436463637373236313730363836393633413130413834303834353645363336
3937303638363537324132303338323031303033303231383030443431373537343638364637
3236393741363137343639364636454131304238363039343134333443344436463634363936
3637394132303338313031464633303231383030443433373237393730373436463637373236
3137303638363936334131304238343039343736353734353236313645363436463644413230
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333832303130303330323538303134343436393636363636353732363536453734363936313643343936343635363645373436393734373941313038383530363434343934343437363537344133233031303146463330323038313031464633303239383030443433337323739373037343646363737323631373036383639363341313131383430463536363537323639363637393533363936373645363137343639363336313734363541323033383130314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53657373696F6E49442D32810821C536D617274636172645369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
    IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820442A1820436808204323C6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E3030433230303030303030303143413746393031333832303143344413138323031433038303031303138313043343936453734363537323645363136433433363537323734383230373238383143313137303330303033413330323830303041343832303139453330314338303044343337323739373037343646363737323631373036383639363341313036383430343533363936373645413230333832303130303033303146383030444343137353734363836463732363937413631373436393646364541313039383630373431343334433443363937333734413230333831303146463330323038303044343337323739373037343646363737323631373036383639363341313041383430383434363536333639373037303638363537323631373036383639363341313038313031303146463330323038303044343337323739373037343646363737323631373036383639363341313038313031303146463330323038303044343337323739373037343646363736373732",


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3631373036383639363341313041383430383435364536333639373036383635373241323033
3832303130303330323138303044343137353734363836463732363937413631373436393646
3645413130423836303934313433344334443646363436393636373941323033383130314646
3330323138303044343337323739373037343646363737323631373036383639363341313042
3834303934373635373435323631364536343646364441323033383230313030333032353830
3134343436393636363636353732363536453734363936313643343936343635364537343639
3734373941313038383530363434343934343437363537344132303338313031464633303237
3830304434333732373937303734364636373732363137303638363936334131313138343046
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3030333032383830313434343639363636363635373236353645373436393631364334393634
3635364537343639373437394131304238353039343434393434353537303634363137343635
4132303338313031464633303239383030443433373237393730373436466363737323631373 0
3638363936334131313338343131353636353732363936363739343336353732373436393636
3639363336313734363541323033383230313030333032453830313434343639363636363635
3732363536453734363936313643343936343635364537343639373437394131313138353046
3434343934343431373537343638363536453734363936333631373436354132303338313031
4646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D697743E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000CA7F90138201C4A18201C0800101810C496E7465726E616C436
5727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A10
684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697
374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865 72A2038
201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100302
1800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D4
3727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
66572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727
970746F67726170686963A111840F566572696679536967 6E6174757265A2038201003028801
4446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101F
F3029800D43727970746F67726170686963A113841156657269667943657274696669636174 6
5A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444944417
57468656E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```


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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F90138201C4A18201C0800101810C496E7465726E616C
4365727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963
A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865572A2
038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF302180
0D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469
66666572</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000CB656E7469616C4964656E74697479A10885064449444765
74A2038101FF3027800D43727970746F67726170686963A111840F566572696679536967 6E61
74757265A203820100302880144469666665726 56E7469616C4964656E74697479A10B850944
494455706461746 5A2038101FF3029800D43727970746F67726170686963A113841156657269
667943657274696669636174 65A203820100302E80144469666665726 56E7469616C4964656E
74697479A111850F44494441757468656E746963617465A2038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>178</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646
2D53657373696F6E49442D328100821C536D617274636172645369646
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
656D61223E0A202020203C52657756C743E4946445F4F4B3C2F52657
3C4F7574707574415044553E3A463930313430383832303634313530
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
3E</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303134303838323036343 1
353034393546344634423934 2393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the internal
certificate DID. The internal certificate DID is
     used to verify that this is a valid smartcard. First create the DIDs
then restrict the DID modification permissions.
     The modification access rules refer to the Internal and External DIDs.
One of these may not have yet been created.
     This DID is actually a Simple Assertion DID, not an Client Application
Asymmetric Internal Authentication DID. This
```

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```
     simplifies the test case. Ensure that multiple DIDs with the same name
can exist in multiple card applications.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the management external certificate DID. The
management external certificate DID is used to
     provide an external party with full privileges. First create the DIDs
then restrict the DID modification permissions.
     The modification access rules refer to the Internal and External DIDs.
This DID is actually a Simple Assertion DID,
     not an Client Application External Authenticate with Certificates DID.
This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F90138201C8A18201C480010181104D616E6745787465726E616C43
65727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D
43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
666572656E7469616C4964656E74697479A10885064449444765 74A2038101FF3027800D4372
7970746F67726170686963A111840F566572696679536967 6E6174757265A203820100302880
144469666666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CE7F90138201C8A18201C480010181104D616E6745787465726
E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686
572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2038
201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3
021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025801
444696666657 2656E7469616C4964656E74697479A10885064449444765 74A2038101FF30278
00D43727970746F67726170686963A111840F566572696679536967 6E6174757265A20382010
```

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```
030288014446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A
2038101FF3029800D43727970746F67726170686963A113841156657269667943657274696 66
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182049BA1820497A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182043A3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2F5726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61233E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303031434537463930313338323031433841313832303143343830303130313 8
313130344436313645363734353738373436353732364536313643343336353732373438323 0
373238383143313137303330303033413330323830303041343832303139453330314338303 0
443433373237393730373436466363737323631373036383639363341313036383430343533 36
393637364541323033383230313030333031463830304434313735373436383646373236393 7
413631373436393646364541313039383630373431343334433443363937333734413230333 8
313031466433303230383030443433337323739373037343646363737323631373036383639 36
334131304138343038343436353633363937303638363537324132303338323031303033303 2
303830304434333732373937303734364636373732363137303638363936334131304138343 0
383435364536333639373036383635373241323033383230313030333032313830304434313 7
353734363836463732363937413631373436393646364541313042383630393431343334433 4
443646363436393636373941323033383130314646333032313830304434333732373937303 7
343646363737323631373036383639363341313042383430393437363537343532363136453 6
343646364441323033383230313030333032353830313434343639363636363653732363536
453734363936313643343936343635364537343639373437394131303838353036343434393 4
343437363537344132303338313031466433303237383030443433337323739373037343646 36
373732363137303638363936334131313131383430463536363537323639363637393533363936
373645363137343735373236354132303338323031303033303238383031343434363936363 6
363635373236353645373436393631364334393634363536457374363937343739413130438 38
353039343434393434353537303634363137343635412320333831303146463330323938303 0
443433373237393730373436466363737323631373036383639363341313133383431313536 36
353732363936363739343336353732373436393636363936333631373436354132303338323 0
313030333032453830313434343639363636363635373236353645373436393631364334393 6
343635364537343639373437394131313131383530463434343934343431373537343638363536
453734363936333631373436354132303338313031466463030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82044AA182043E8082043A3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A737465A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303143453746
393031333832303143384131383230314334383030313031383131303444363136453637343 5
373837343635373236453631364334333635373237343832303732383831433131373033030 3
303341333032383030304134383230313945333031433830304434333732373937303734364 6
363737323631373036383639363341313036383430343533363936373645413230333832303 1
303033303146383030443431373537343638364637323639374136313734363936463645413 1
303938363037343134333443344334363937333734413230333831303146463330323038303044
343337323739373037343646363573236313730363836393633413130413834303834343635
363336393730363836353732413230333832303130303330323038303044343337323739373 0
373436463637373236313730363836393633413130413834303834353645363336393730363 8
363537324132303338323031303033303231383030443431373537343638364637323639374 1
363137343639364636454131304238363039343134333443344436463634363936363739413 2
303338313031466463303231383030443433337323739373037343646363737323631373036 8
363936334131304338343039343736353734353236313645363436463644413230333832303 1
303033303235383031343434363936363636363537323635364537343639363136433439363 4
363536453734363937343739413130383835303634343439343434373635373441323033383 1
303146463330323738303044343337323739373037343646363737323631373036383639363 3
413131313834304635363635373236393636373935333639363736453631373437353732363 5
413230333832303130303330323838303134343436393636363636353732363536453734363 9
363136433439363436353645373436393734373941313042383530393434343934343553730
363436313734363541323033383130314646333032393830304434333732373937303734364 6
363737323631373036383639363341313133383431313536363537323639363637393433363 5
373237343639363636393633363137343635413230333832303130303330324538303134343 4
363936363636363537323635364537343639363136433439363436353645373436393633374 9
413131313835304634343439343434313735373436383635364537343639363336313734363 5
413230333831303146463030303C2F496E707574415044553E0A3C2F6E73323A5472616E73
6D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CE7F90138201C8A18201C480010181104D616E6745787465726
E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686
572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2038
201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3
021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025801
4446966666572656E7469616C4964656E74697479A10885064449444765 74A2038101FF30278
00D43727970746F67726170686963A111840F566572696695369676E6174757265A20382010
0302880144469666666572656E7469616C4964656E74697479A10B85094449445570646176 5A
2038101FF3029800D43727970746F67726170686963A113841156657269667943657274696666
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F90138201C8A18201C480010181104D616E6745787465
726E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261
70686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607
41434C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970
686572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2
038201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101
FF3021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025
80144469</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000CF66666572656E7469616C4964656E74697479A108850644
4944476574A2038101FF3027800D43727970746F67726170686963A1118401F56657269667953
69676E6174757265A203820100302880144469666665726 56E7469616C4964656E74697479A1
0B85094449445570646174 65A2038101FF3029800D43727970746F67726170686963A1138411
566572696679436572746966696361746 5A203820100302E80144469666665726 56E7469616C
4964656E74697479A111850F44494441757468656E74696361746 5A2038101FF00</encodedD
ata>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374639303134303838323036343135303439354634644634239930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303134303838323036343 1
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>201</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the management
external certificate DID. The management
     external certificate DID is used to provide an external party with full
privileges. First create the DIDs then
     restrict the DID modification permissions. The modification access
rules refer to the Internal and External DIDs.
     This DID is actually a Simple Assertion DID, not an Client Application
External Authenticate with Certificates DID.
     This simplifies the test case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the internal certificate
DID. Modification of this DID requires self
     authentication. Ensure that a DID ACL can refer to
itself.</description>
  <encodedData
type="xs:hexBinary">7F901F8186A1818380010181154449464645524 54E5449414C2D4944
454E54495459A20E810C496E7465726E616C436572748314446966666572656E7469616C4964
656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616C436572
74A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</enco
dedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008B7F901F8186A1818380010181154449464645524 54E5449414
C2D4944454E54495459A20E810C496E7465726E616C436572748314446966666572656E74696
16C4964656E74697479A40B85094449445570646174 65A534A432A01580 0C496E7465726E616
C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201F
F0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820215A1820211A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201B43C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343733373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303038423746393031463831383641313831383338303031303138313534
3434393436343634353532343534455343439343134433244343934343534453534343935
3435394132304538313043343936453734363537323645363136433433363537323734383331
3434343639363636363635373236353645373436393631364334393634363536453734363937
3437394134304238353039343434393434353537303634363137343635413533344134333241
3031353830304334393645373436353732364536313643343336353732373441313032383030
3038323031464641303139383031303444363136453637343537383734363537323645363136
4334333635373237344131303238303030383230314646303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
```

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```
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201C4A18201B8808201B43C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038423746
393031463831383641313831383338303031303138313533434343934363436343535323435
344535343439343134433244343934343534453534343935343539413230453831304334393
364537343635373236453631364334333635373237343833313434343639363636363653732
363536453734363936313643343936343635364537343639373437394134304238353039343 4
343934343535373036343631373436354135333441343332413031353830304343936453734
363537323645363136433433363537323734413130323830303038323031464641303139383 0
313034443631364536373435373837343635373236453631364334333635373237344131303 2
383030303832303146463030303C2F496E707574415044553E0A3C2F6E73323A5472616E73
6D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008B7F901F8186A1818380010181154449464645524 54E5449414
C2D4944454E54495459A20E810C496E7465726E616C436572748314446966666572656E74696
16C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616
C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201F
F0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200008B7F901F8186A1818380010181154449464644552454E5449
414C2D4944454E54495459A20E810C496E7465726E616C436572748314469666666572656E74
69616C4964656E74697479A40B8509444944455706461746 5A534A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF00</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>12</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the internal certificate DID.
     Modification of this DID requires self authentication. Ensure that a
DID ACL can refer to itself.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the internal certificate
DID. Modification of this DID requires self
     authentication. Ensure that a DID ACL can refer to
itself.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C80010181154449464645524 54E5449414C2D4944454E
54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000827F901F7EA17C800101811544494646455245 4E5449414C2D4
944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008
201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820203A18201FFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201A23C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030383237463930314637454131374338303031303130383131353434343934
36343634353532343534453534343934313443244343934343435344535343439353 4353941
32304538313043343936453734363537323645363136433433363537323734383330443431373
35373436383646373236393741363137343639364636454134304238363039343134333443334
44364636343639363673941353334413433324130313538303043343936453734363537323236
45363136433433363537323734413131303238303030383230314646413031393830313034443 6
31364536373435373837343635373236453631364334333635373237344131303238303038
32303146463030303C2F496E7075744150445 53E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201B2A18201A6808201A23C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303038323746
393031463745413137433830303130313831313534343439343634363435353234353445534
343934313443324434393434343534453534343935343539413230453831304334393645373
436353732364536313643343336353732373438333044343137353734363836463732363937
363137343639366463645413430423836303934313433344334434643634363936373941135
333441343332413031353830304334393645373436353732364536313643343336353732373
413130323830303038323031464641303139383031303444363136453637343537383734363
373236453631364334333635373237344131303238303030383230314646303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000827F901F7EA17C80010181154449464645524 54E5449414C2D4
944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008
201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000827F901F7EA17C80010181154449464645524 54E5449414C
2D4944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A617469
6F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedDat
a>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
```

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```
30303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D61727463617264 2D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423934 2393030303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```


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```
      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the internal certificate DID.
    Modification of this DID requires self authentication. Ensure that a
DID ACL can refer to itself.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the management external
certificate DID. Modification of this DID
    requires self authentication. Ensure that a DID ACL can refer to
itself.</description>
  <encodedData
type="xs:hexBinary">7F901F818AA1818780010181154449464645524 54E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C43657274831444696666657 2656E7469
616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
    Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
    <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008F7F901F818AA181878001018115444946464552454E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C436572748314446966666572 6
56E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E746
5726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FF0000</InputAPDU>
    </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182021DA1820219A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201BC3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030384637463930314638313841413138313837383030313031383131353434
34343934363436343535323435344535343439343134433244343934343435344535343439353
34353941323132383131303444363136453637343537383436353732364536313643343336
35373237343833313434343639363636363635373236353645373436393631364334393634363
35364537343639373437394134304238353039343434393434353537303634363134734363541
35333441343332413031353830304334393645373436353732364536313643343335373237
34413130323830303038323031464641303139383031303444363136453637343537383734363
35373236453631364334333635373237344131303238303030383230314646303030303C2F49
6E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364644652D54432D53
657373696F6E49442D328100821C536D617274636172645364644652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201CCA18201C0808201BC3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038463746
393031463831384141313831383738303031303138313135343434393436343634353532343 5
344535343439343134433244343934343534455343439353435394132313238313130344 4
363136453637343537383734363537323645363136433433363537323734383331343434363 9
363636363635373236353645373436393631364334393634363536453734363937343739413 4
304238353039343434393434353537303634363137343635413533344134333241303135383 0
304334393645373436353732364536313643343336353732373441313032383030303832303 1
464641303139383031303444363136453637343537383734363537323645363136433343336 5
373237344131303238303030383230314646303030303C2F496E70757441504453E0A3C2F6E
73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000008F7F901F818AA1818780010181154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C436572748314446966666572 6
56E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E746
5726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200008F7F901F818AA1818780010181154449464645524 54E5449
414C2D4944454E54495459A21281104D616E6745787465726E616C436572748314446966666 5
72656E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E
```

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```
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374639303230303838323036343135303439354634463442393030
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A18EB98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746393032303038383230363431
353034393546344634423930303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>250</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the management external
     certificate DID. Modification of this DID requires self authentication.
Ensure that a DID ACL can refer to itself.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the management external
certificate DID. Modification of this DID
     requires self authentication. Ensure that a DID ACL can refer to
itself.</description>
  <encodedData
type="xs:hexBinary">7F901F8183A1818080010181154449464645524 54E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C43657274830D417574686F72697A6174
696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</encodedDat
a>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000887F901F8183A1818080010181154449464645524 54E5449414
C2D4944454E54495459A21281104D616E6745787465726E616C43657274830D417574686F726
97A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182020FA182020BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201AE3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303038383746393031463831383341313831383038303031303138313135343
34343934363436343535323435344535343439343134433244343934343534453534343935
34353941323132383131303444363136453637343537383734363537323645363136433433336
35373237343833304434313735373436383646373236393741363137343639364636454134303
42383630393431343334433444344646363436393636373941353334413433324130313538303
04333936453734363537323645363136433433363537323734413130323830303038323031463
46413031393830313034443631364536373435373837343635373236453631364334333633537
32373441313032383030303832303146463030303C2F496E707574415044553E0A3C2F6E73
323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201BEA18201B2808201AE3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038383746
```

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```
393031463831383341313831383038303031303138313135343434393436343634353532343534453534343934313443324434393434343534453534343935343539413231323831313034443631364536373435373837343635373236453631364334333635373237343833304434313735373436383646373236393741363137343639364636454134304238363039343134333443344436463634363936363739413533344134333241303135383030433439364537343635373236453631364334333635373237343131303238303030383230314646413031393830313034443631364536373435373837
```

```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D6172746361726453696465 2D5443
2D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A20202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>15</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

        <OutputAPDU>7F9020088206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the management external
```

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```
      certificate DID. Modification of this DID requires self authentication.
Ensure that a DID ACL can refer to itself.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Card Holder PIN DID. The Card Holder is required
to enter a PIN to authenticate this DID. This
      DID is actually a Simple Assertion DID, not an Client-Application
Secure PIN Compare Authentication DID. This
      simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382021FA182021B8001018105434850494E82072881C1170300
03A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA2038201
00301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D
43727970746F67726170686963A10A840844656369706865 72A2038201003020800D43727970
746F67726170686963A10A8408456E636970686572A2038201003021800D43727970746F6772
6170686963A10B840947657452616E646F6DA2038201003025801444696666665726 56E746961
6C4964656E74697479A10885064449444765 74A2038101FF3027800D43727970746F67726170
686963A111840F5665726966795369676E6174757265A2038201003029800D43727970746F67
726170686963A113841156657269667943657274696666963617465A203820100302E80144469
66666572656E7469616C4964656E74697479A111850F44494441757468656E746963617465A2
038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432
A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E61
6C43657274A10280008201FF305980144469666665726 56E7469616C4964656E74697479A10B
85094449445570646174 65A234A432A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002257F901382021FA182021B8001018105434850494E82072881C
117030003A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA
203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3
020800D43727970746F67726170686963A10A840844656369706865 72A2038201003020800D4
3727970746F67726170686963A10A8408456E636970686572A2038201003021800D437279707
46F67726170686963A10B840947657452616E646F6DA2038201003025801444696666665726 56
E7469616C4964656E74697479A10885064449444765 74A2038101FF3027800D43727970746F6
7726170686963A111840F5665726966795369676E6174757265A2038201003029800D4372797
0746F67726170686963A113841156657269667943657274696666963617465A203820100302E8
014446966666572656E7469616C4964656E74697479A111850F44494441757468656E7469636
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17465A2038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A
234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746
5726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697
479A10B85094449445570646174 65A234A432A015800C496E7465726E616C43657274A102800
08201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU
>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820549A1820545A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818204E83C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303232353746393031333832303231464131383230323142383030313031383
3130353433343835303439344538323037323838314331313730333030303033413330323830303
3041343832303230303330314338303044343337323739373037343646363737323631373036
3836393633413130363834303435333639363736454132303338323031303033303146383030
4434313735373436383646373236393741363137343639364636454131303938363037343134
3334433443363937333734413230333831303146463330323038303044343337323739373037
3436463637373236313730363836393633413130413834303834343635363336393730363836
3537324132303338323031303033303230383030443433373237393730373436463637373236
3137303638363936334131304138343038343536453633363937303638363537324132303338
3230313030333032313830044343337323739373037343646363737323631373036383639363
3341313042383430393437363537343532363136453634364636444132303338323031303033
3032353830313434343639363636363635373236353645373436393631364334393634363536
4537343639373437394131303838353036343434393434343736353734413230333831303146
4633303237383030443433337323739373037343646363737323631373036383639363341313
1313834304635363635373236393636373935333639363736453631373437353732363541323
0333832303130303330323938303044343337323739373037343646363737323631373036383
6393633413131333834313135363635373236393636373934333635373237343639363636393
6333631373436354132303338323031303033303245383031343434363936363636363537323
6353645373436393631364334393634363536453734363937343739413131313138353046343434
3934343431373537343638363536453734363936333631373436354132303338313031464633
3035323830304434313735373436383646373236393741363137343639364636454131304238
3630393431343334433444364636343639363673941323334413433324130313538303043343
3936453734363537323645363136433433363537323734413130323830303038323031464641
3031393830313034443631364536373435373837343635373236453631364334333635373237
3441313032383030303832303146463330353938303134343436393636363636353732363536
4537343639363136433439363436353645373436393734373941313042383530393434343934
3435353730363436313734363541323334413433324130313538303043343936453734363537
3236453631364334333635373237344131303238303030383230314646413031393830313034
4436313645363734353738373436353732364536313643343336353732373441313032383030
3038323031464630303030 3C2F496E707574415044553E0A3C2F6E73323A5472616E736D6974
3E</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
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```
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8204F8A08204EC808204E83C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504455 3E3030433230303030303030303232353746
393031333832303231464131383230323142383030313031383130353433343835303439344 5
383230373238383143313137303330303033413330323830303041343832303230333031 43
383030443433373237393730373436466363737323631373036386369363341313036383430 34
353336393637364541323033383230313030333031463830304434313735373436383646373 2
363937413631373436393646366454131303938363037343134333443344336393733373441 32
303338313031464833302303830304434333732373937303734364636373732363137303638
363936334131304138343038343436353633363937303638363537324132303338323031303 0
333032303830304434333732373937303734364636373732363137303638363936334131304 1
383430383435364536333639373036383635373241323033383230313030333032313830304 4
343337323739373037343646363737323631373036383639363341313042383430393437363 5
373435323631364536343646364644132303338323031303033303235383031343434363936 36
363636353732363536455734363936313643343936343635364537343639373437394131303 8
383530363434343934343437363537344132303338313031464633303237383030443433373 2
373937303734364636373732363137303638363936334131313138343046353636353732363 9
363637393533363936373645363137343735373236354132303338323031303033032393830
304434333732373937303734364636373732363137303638363936334131313338343131353 6
363537323639363637393433363537323734363936363639363336313734363541323033383 2
303130303330324538303134343436393636363636353732363536453734363936313643343 9
363436353645373436393734373941313131383530463434343934343431373537343638363 5
364537343639363336313734363541323033383130314646333035323830304434313735373 4
363836463732363937413631373436393646364541313042383630393431343344334443646
363436393636373941323334413433324130313538303043343936453734363537323645363 1
364334333635373237344131303238303030383230314646413031393830313034443631364 5
363734353738373436353732364536313643343336353732373441313032383030303832303 1
```

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4646333035393830313434343639363636363635373236353645373436393631364334393634
3635364537343639373437394131304238353039343434393434353537303634363137343635
4132333441343332413031353830304334393645373436353732364536313643343336353732
3734413130323830303038323031464641303139383031303444363136453637343537383734
3635373236453631364334333635373237344131303238303030383230314646303030303C2F
496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002257F901382021FA182021B8001018105434850494E82072881C
117030003A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA
203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3
020800D43727970746F67726170686963A10A840844656369706865572A2038201003020800D4
3727970746F67726170686963A10A8408456E636970686572A2038201003021800D437279707
46F67726170686963A10B84094765745261 6E646F6DA2038201003025801444696666657265
E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F6
7726170686963A111840F5665726966795369676E6174757265A2038201003029800D4372797
0746F67726170686963A113841156657269667943657274696669636174 65A203820100302E8
01444696666657265 6E7469616C4964656E74697479A111850F4449444175746865 6E7469636
17465A2038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A
234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746
5726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697
479A10B85094449445570646174 65A234A432A015800C496E7465726E616C43657274A102800
08201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU
>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F901382021FA182021B8001018105434850494E820728
81C117030003A3028000A4820200301C800D43727970746F67726170686963A1068404536967
6EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101
```


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FF3020800D43727970746F67726170686963A10A84084465636970686572A203820100302080
0D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D437279
70746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665572
656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D4372797074
6F677261</encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF70686963A111840F566572696679536967 6E6174757265
A2038201003029800D43727970746F67726170686963A113841156657269667943657274696
6963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F
444944417574686E74696361746A2038101FF3052800D417574686F72697A6174696F6EA1
0B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201
FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966666572
656E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E74
65726E61</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000276C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E3746393031343038383230363431353034393546344634423930
```


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```
30303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546344634423933030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```


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```
      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Card Holder PIN
DID. The Card Holder is required to enter a
     PIN to authenticate this DID. This DID is actually a Simple Assertion
DID, not an Client-Application Secure PIN
     Compare Authentication DID. This simplifies the test
case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Alpha External Certificate DID. This DID is
actually a Simple Assertion DID, not an Client
     Application External Authenticate with Certificates DID. This
simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382022BA18202278001018111416C70686145787465726E616C
4365727482072881C11703000A3028000A4820200301C800D43727970746F67726170686963
A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A2
038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
3021800D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580
1444696666657265 6E7469616C4964656E74697479A10885064449444476574A2038101FF3027
800D43727970746F67726170686963A111840F566572696679536967 6E6174757265A2038201
003029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B860941
434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF3059801444696666657265 6E7469
616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002317F901382022BA18202278001018111416C706861457874657
26E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F6772617
0686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA10986074
1434C4C697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706
86572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A20
38201003021800D43727970746F67726170686963A10B840947657452616E646F6DA20382010
030258014446966666572656E7469616C4964656E74697479A1088506444944476574A203810
1FF3027800D43727970746F67726170686963A111840F566572696679536967674174757265A
2038201003029800D43727970746F67726170686963A113841156657269667943657274696666
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10
B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201F
FA01980104D616E6745787465726E616C43657274A10280008201FF8059801444696666657726
56E7469616C4964656E74697479A10B85094449445570646174654A234A432A015800C496E746
5726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820561A182055DA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818205003C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A33243732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030323331374639303133383230323242413138323032323738303031303138
3131313431364337303638363134353738373436353732364536313643343336353732373438
3230373238383143313137303330303033413330323830303041343832303230303330314338
3030443433373237393730373436466363737323631373036383639363341313036383430343 5
3336393637364541323033383230313030333031463830304434313735373436383646373236
3937413631373436393646364541313039383630373431343334433443336393733373441323 0
3338313031466333032303830304434333732373937303734366463637373236313730363836
3936334131304138343038343436353633363937303638363537324132303338323031303033
3032303830304434333732373937303734366463637373236313730363836393633413130413 8
3430383435364536333639373036383635373241323033383230313030333032313830304434
3337323739373037343646363737323631373036383639363341313042383430393437363537
3435323631364536343646364644132303338323031303033303235383031343434363936363 6
3636353732363536453734363936313643343936343635364537343639373437394131303838
3530363434343934343437363537344132303338313031464633303237383030443433373237
3937303734366463637373236313730363836393633413131313834304635363635373236393 6
3637393533363936373645363137343735373236354132303338323031303033303239383030
```


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4434333732373937303734364636373732363137303638363936334131313338343131353636
3537323639363637393433363537323734363936363639363336313734363541323033383230
3130303330324538303134343436393636363636353732363536453734363936313643343936
3436353645373436393734373941313131383530463434343934343431373537343638363536
4537343639363336313734363541323033383130314646333035323830304434313735373436
3836463732363937413631373436393646364541313042383630393431343334433444364636
3436393636373941323334413433324130313538303043343936453734363537323645363136
4334333635373237344131303238303030383230314646413031393830313034443631364536
3734353738373436353732364536313643343336353732373441313032383030303832303146
4633303539383031343434363936363636363537323635364537343639363136433439363436
3536453734363937343739413130423835303934343439343435353730363436313734363541
3233344134333241303135383030433439364537343635373236453631364334333635373237
3441313032383030303832303146464130313938303130344436313645363734353738373436
3537323645363136433433363537323734413130323830303038323031464630303030 3C2F49
6E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820510A1820504808205003C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303233313746
3930313338323032324241313832303232373830303130313831313134313643373036383631
3435373837343635373236453631364334333635373237343832303732383831433131373033
3030303341333032383030304134383230322303033303143383030443433373237393730373 4
3646363737323631373036383639363341313036383430343533363936373645413230333832
3031303033303146383030443431373537343638364637323639374136313734363936463645
4131303938363037343134333443344336393733373441323033383130314646333032303830
```

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3044343337323739373037343646363737323631373036383639363341313041383430383434
3635363336393730363836353732413230333832303130303330323038303044343337323739
3730373436463637373236313730363836393633413130413834303834353645363336393730
3638363537324132303338323031303033303231383030443433373237393730373436463637
3732363137303638363936334131304238343039343736353734353236313645363436463644
4132303338323031303033303235383031343434363936363636353732363536453734363639
3631364334393634363536453734363937343739413130383835303634343439343434373635
3734413230333831303146463330323738303044343337323739373037343646363737323631
3730363836393633413131313138343046353636353732363936363739353336393637364536313
3734373537323635413230333832303130303330323938303044343337323739373037343646
3637373236313730363836393633413131313338343131353636353732363936363739343336353
3732373436393636363936333631373436354132303338323031303033303245383031343434
3639363636363635373236353645373436393631364334393634363536453734363937343739
4131313138353046343434393434343137353734363836353645373436393633363137343635
4132303338313031464633303532383030443431373537343638364637323639374136313734
3639364636454131304238363039343134333443344436463634363936363739413233344134
3332413031353830304334393645373436353732364536313643343336353732373441313032
3830303038323031464641303139383031303444363136453637343537383734363537323645
3631364334333635373237344131303238303030383230314646333035393830313434343639
3636363636353732363536453734363936313643343936343635364537343639373437394131
3042383530393434343934343535373036343631373436354132333441343332413031353830
3043343936453734363537323645363136433433363537323734413031303238303030383230313
4646413031393830313034443631364536373435373837343635373236453631364334333635
3732373441313032383030303832303146463030303C2F496E70574415044553E0A3C2F6E
73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002317F901382022BA18202278001018111416C706861457874657
26E616C43657274482072881C117030003A3028000A4820200301C800D43727970746F6772617
0686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA10986074
1434C4C697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706
86572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A20
38201003021800D43727970746F67726170686963A10B840947657452616E646F6DA20382010
030258014446966666572656E7469616C4964656E74697479A1088506444944476574A203810
1FF3027800D43727970746F67726170686963A111840F566572696679536967 6E6174757265A
2038201003029800D43727970746F67726170686963A113841156657269667943657274696666
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10
B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201F
FA01980104D616E6745787465726E616C43657274A10280008201FF3059801444696666657726
56E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E746
5726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028
0008201FF0000</InputAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F901382022BA18202278001018111416C706861457874
65726E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F6772
6170686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA10986
0741434C4C697374A2038101FF3020800D43727970746F67726170686963A10A840844656369
70686572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572
A2038201003021800D43727970746F67726170686963A10B84094765745261 6E646F6DA20382
0100302580144469666665726 56E7469616C4964656E74697479A10885064449444476574A203
8101FF30</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF27800D43727970746F67726170686963A111840F566572
6966795369676E6174757265A2038201003029800D43727970746F67726170686963A1138411
56657269667943657274696666963617465A203820100302E80144469666666572656E7469616C
4964656E74697479A111850F44494441757468656E746963617465A2038101FF3052800D4175
74686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF30598014446966666572656E7469616C4964656E74697479A10B85094449445570646174
65A234A4</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200003332A015800C496E7465726E616C43657274A10280008201
FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031343038383230363431353034393546346344634239
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
```

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353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Alpha External
Certificate DID. This DID is actually a
     Simple Assertion DID, not an Client Application External Authenticate
with Certificates DID. This simplifies the test
     case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Beta External Certificate DID. The client systems
using the smart card must provide a valid
     Certificate signed by the Beta certificate authority certificate to
authenticate this DID.</description>
  <encodedData
type="xs:hexBinary">7F901382022AA1820226800101811042657461457874657265726E616C43
65727482072881C117030003A3028000A4820200301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D43727970746F67726170686963A10B840947657452616E646F6DA20382010030258014
446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF302780
0D43727970746F67726170686963A111840F5665726966795369676E6174757265A203820100
3029800D43727970746F67726170686963A113841156657269667943657274696669636174 65
A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4449444175
7468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B86094143
```

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4C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF30598014446966666572656E746961
6C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002307F901382022AA18202268001018110426574614578746572 6
E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686
572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2038
201003021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003
025801444696666657265 6E7469616C4964656E74697479A1088506444944476574A2038101F
F3027800D43727970746F67726170686963A111840F566572696679536967 6E6174757265A20
38201003029800D43727970746F67726170686963A113841156657269667943657274696669 6
3617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444
94441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B8
60941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA
01980104D616E6745787465726E616C43657274A10280008201FF30598014446966666572656
E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E74657
26E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800
08201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182055FA182055BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818204FE3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303032333037463930313338323032324141313832303232363838303031303138
```

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313130343236353734363134353738373436353732364536313643343336353732373438323037323838314331313730333030303033413330323830303041343832303230303330314338303037343336463637373236313730363836393633413131313834303463536363537323639363637393533363936373645363137343735373236354132303338323031303033303239383030443433373236373936373037343646363637373236313730363836393633413131303423834303934373635373435323631364536343646364644132303338323031303033303235383031343434363936363636393733363934333633373236313730363836393633413131303423834303934373635373435323631364536343646364644132303338323031303033303235383031343434363936363636393733363934333633373236313730363836393633413131303423834303934373635373435323631364536343646364644132303338323031303033303235383031343434363936363636393733363934333633373236313730363836393633413131313338343135363635373236393733373236313730363836393633413131313338343135363635373236393733373236313730363836393633413131303423834303934373635373435323631364536343646364644132303338323031303033303235383031343434363936363636393733363934333633
```

```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82050EA1820502808204FE3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303033233037746
393031333832303232414131383230322363830303130313831313034323635373436313435
373837343635373236453631364334333635373237343832303732383831433131373033303030
303341333032383030304134383230323030333031433830304434333732373937303734364
363737323631373036383639363341313036383430343533363936373645413230333832303
030333031463830304434313735373436383646373236393741363137343639364636454131
303938363037343134333443344334433639373337344132303338313031464633303230380303044
343337323739373037343646363737323631373036383639363341313041383430383435363
363336393730363836353732413230333832303130303330323038303044343337323739373
037343646363737323631373036383639363341313041383430383435364536333639373036
363537324132303338323031303033303231383030443433373237393730373436463637373
236313730363836393633413131303238343039343736353734353236313645363436463644413
230333832303130303330323538303134343436393636363635373236353645373436393631
364334393634363536453734363937343739413130383835303634343439343436373635373
413230333831303146463330323738303044343337323739373037343646363737323631373
036383639363341313131383430463536363537323639363637395333639363736453631373
437353732363541323033383230313030333032393830304434333732373937303734364636373
732363137303638363936334131313338343131353636353732363936367394333635373
237343639363636393633363137343635413230333832303130303330324538303134343436
363636363635373236353645373436393631364334393634363536453734363937343739413
131313835304634343439343434313735373436383635364537343639363336313734363541
323033383130314646333035323830304434313735373436383646373236393741363137343639
364636454131304238363039343134333443344436463634363936367394132333441343332
413031353830304334393645373436353732364536313643343336353732373441313032383
030303832303146464130313938303130344436313645363734353738373436353732364536
364334333635373237344131303238303030383230314646333035393830313434343639363
636363537323635364537343639363136433439363436353645373436393734373941313042
383530393434343934343535373036343631373436354132333441343332413031353830304
343936453734363537323645363136433433363537323734413130323830303038323031463
641303139383031303443631364536373435373837343635373236453631364334333635373
237441131303238303030383230314646303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002307F901382022AA18202268001018110426574614578746572 6
E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F677261706
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86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F6772617068696 3A10A84084465636970686
572A2038201003020800D43727970746F6772617068696 3A10A8408456E636970686572A2038
201003021800D43727970746F6772617068696 3A10B840947657452616E646F6DA2038201003
0258014446966666572656E7469616C4964656E74697479A1088506444944476574A2038101F
F3027800D43727970746F6772617068696 3A111840F566572696679536 9676E6174757265A20
38201003029800D43727970746F6772617068696 3A113841156657269667943657274696669 6
3617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444
94441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B8
60941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA
01980104D616E6745787465726E616C43657274A10280008201FF3059801444696666657265 6
E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E74657
26E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800
08201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F901382022AA18202268001018110426574614578746 5
726E616C4365727482072881C117030003A3028000A4820200301C800D43727970746F677261
70686963A10684045369676EA2038201003 01F800D417574686F72697A6174696F6EA1098607
41434C4C697374A2038101FF3020800D43727970746F6772617068696 3A10A84084465636970
686572A2038201003020800D43727970746F6772617068696 3A10A8408456E636970686572A2
038201003021800D43727970746F6772617068696 3A10B840947657452616E646F6DA2038201
00302580144469666666572656E7469616C4964656E74697479A1088506444944476574A20381
01FF3027</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
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      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF800D43727970746F67726170686963A111840F56657269
66795369676E6174757265A2038201003029800D43727970746F67726170686963A113841156
65726966794365727469666963617465A203820100302E80144469666666572656E7469616C49
64656E74697479A111850F44494441757468656E746963617465A2038101FF3052800D417574
686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF3059801444696666657265E7469616C4964656E74697479A10B85094449445570646174657
A234A432</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C2000032A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D6172746361726453696465 2D5443
2D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
```

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```
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546344634423933030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Beta External
Certificate DID. The client systems using the
     smart card must provide a valid Certificate signed by the Beta
certificate authority certificate to authenticate this
     DID.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetList access rule of the A00000041000020001
application: Internal AND (CHPIN OR
```

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```
      MangExternalCert OR AlphaExternalCert).</description>
  <encodedData
type="xs:hexBinary">7F901F81A3A181A08001018110434152442D4150504C49434154494F
4EA20B8209A000000410000200018309 4E616D656444617461A40D830B446174615365744C69
7374A562A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850
494EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A
8011416C706861457874657 26E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000A87F901F81A3A181A08001018110434152442D4150504C49434
154494F4EA20B8209A000000410000200018309 4E616D656444617461A40D830B44617461536
5744C697374A562A460A015800C496E7465726E616C43657274A10280008201FFA547A00E800
5434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FFA01A8011416C706861457874657 26E616C43657274A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182024FA182024BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201EE3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030413837463930314638314133413138314130383030313031383131303 4
333431353234343244343135303530344334393433343135343439344634454132304238323 0
394130303030303034313030303032303030313833303934453631364436353634343436313 7
343631413430443833304234343631373436313533363537343443363937333734413536324 1
343630413031353830304334393645373436353732364536313643343336353732373441313 0
323830303038323031464641353437413030453830303534333438353034393445413130323 8
303030383230314646413031393830313034443631364536373435373837343635373236453 6
313643343336353732373441313032383030303832303146464130314138303131343136433 7
303638363134353738373436353732364536313643343336353732373441313032383030303 8
```

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```
3230313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726536964652D54432D53
657373696F6E49442D328100821C536D6172746361726536964652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201FEA18201F2808201EE3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303041383746
3930314638314133413138314130383030313031383131303433343135323434324434313530
3530344334393433343135343439344634454132304238323039413030303030303431303030
3032303030313833303934453631364436353634343436313734363141343044383330423434
3631373436313533363537343443363937333734413536324134363041303135383030433439
3645373436353732364536313643343336353732373441313032383030303832303146464135
3437413030453830303534333438353034393445413130323830303038323031464641303139
3830313034443631364536373435373837343635373236456361364334333635373237344131
3032383030303832303146464130314138303131343136433730363836313435373837343635
3732364536313643343336353732373441313032383030303832303130303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000A87F901F81A3A181A08001018110434152442D4150504C49434
154494F4EA20B8209A000000410000200018309 4E616D656444617461A40D830B44617461536
5744C697374A562A460A015800C496E7465726E616C43657274A10280008201FFA547A00E800
5434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FFA01A8011416C706861457874657265726E616C43657274A10280008201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000A87F901F81A3A181A08001018110434152442D4150504C49
434154494F4EA20B8209A000000410000200018309 4E616D656444617461A40D830B44617461
5365744C697374A562A460A015800C496E7465726E616C43657274A10280008201FFA547A00E
8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
8201FFA01A8011416C706861457874657265726E616C43657274A102800082010000</encodedDat
a>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
```

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```
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E37463930323030383832303634313530343935463446344234393930
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303230303838323036343 1
353034393546344634423934303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DataSetList
access rule of the A00000041000020001
     application: Internal AND (CHPIN OR MangExternalCert OR
AlphaExternalCert).</description>
  <encodedData type="xs:hexBinary">7F9020088206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetCreate access rule of the
A00000041000020001 application: Internal AND
     MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A1748001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000200018309 4E616D656444617461A40F830D4461746153657443726561
```

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```
7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524 42D4150504C494341544
94F4EA20B8209A000000410000200018309 4E616D656444617461A40F830D446174615365744
37265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201F3A18201EFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C486C69656E74417070536964652D54432D53657373696F6E49442D32818201923C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D69656633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030303741374639303146373641313734383030313031383131303433343135
323434323443431353035303443343934333431353434393446344541323042383230394130 30
303030303431303030303230303031383330393445363136443635363434343631373436314 1
343046383330443434363137343631353336353734343337323635363137343635413533344 1
343332413031353830304334393645373436353732364536313643343336353732373441313 0
323830303038323031464641303139383031303444363136453637343537383734363537323 6
453631364334333635373237344131303238303030383230314646303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201A2A1820196808201923C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441044553E303043323030303030303037413746
393031463736413137343830303130313831313034333431353234343244343135303534 43
343934333431353434393446344541323042383230394130303030303034313030303032303 0
303138333039344536313644363536343434363137343631413430463833304434343631373 4
363135333635373433337323635363137343635413533344134333241303135383030433439
364537343635373236453631364543336353732373441313032383030303832303146464130
313938303130344436313645363734353738373436353732364536313643343336353732373 4
413130323830303038323031464630303030 3C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E8206450495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100002000183094E616D656444617461A40F830D446174615365744
```

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```
37265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200007A7F901F76A17480010181104341524424D4150504C494341
54494F4EA20B8209A000000410000200018309 4E616D656444617461A40F830D446174615365
74437265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F9020088206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F9020088206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```


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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>357</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DataSetCreate
access rule of the A00000041000020001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetDelete access rule of the
A00000041000020001 application: Internal AND
     MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A17480010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000020001830 94E616D656444617461A40F830D4461746153657444656C65
7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100002000183094E616D656444617461A40F830D446174615365744
4656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201F3A18201EFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201923C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303037413746393031463736413137343830303130313831313034333431 35
32343432443431353035303443343934333431353434393446344541323042383230394130 30
30303030343130303030303230303031383330393445363136443635363434343631373436 3141
34304638333044343436313734363135333635373434343635364336353734363541353334 41
34333241303135383030433439364537343635373236453631364334333635373237344131 30
32383030303832303146464130313938303130344436313645363734353738373436353732 36
45363136433433363537323734413130323830303038323031466463030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>364</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201A2A1820196808201923C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303037413746
393031463736413137343830303130313831313034333431353234343244343131353035303443
343934333431353434393446344541323042383230394130303030303034313030303032303030
303138333039344536313644363536343434363137343631413430463833304434343631373734
363135333635373434343635364336353734363541353334413433324130313538303043343439
364537343635373236453631364334333635373237344131303238303030383232303146464130
313938303130344436313645363734353738373436353732364536313643343336353732373734
413130323830303038323031464630303030 3C2F496E7075744415044553E0A3C2F6E73323A54
72616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100002000183094E616D656444617461A40F830D446174615365744
4656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C200007A7F901F76A17480010181104341524 42D4150504C494341
54494F4EA20B8209A0000004100002000183094E616D656444617461A40F830D446174615365
7444656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374639303230303838323036343135303439354634463442393 0
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>370</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361 72642D686F73742E6E657482
1C436C69656E74417070536964652D54432D536573736 96F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DataSetDelete
access rule of the A00000041000020001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDCreate access rule of the A00000041000020001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F7DA17B800101811043415244 2D4150504C49434154494F4EA2
0B8209A000000410000200018314446966666572656E7469616C4964656E74697479A40B8509
4449444437265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000817F901F7DA17B800101811043415244 2D4150504C494341544
94F4EA20B8209A000000410000200018314446966666572656E7469616C4964656E74697479A
40B85094449444437265617465A534A432A015800C496E7465726E616C43657274A1028000820
1FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820201A18201FDA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818201A03C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030383137463930314637444131374238303031303138313130343334313 5
323434324434313530353034433439343334313534343934463445413230423823039413030
303030303431303030303230303031383331343434363936363636363537323635 3645373436
393631364334393634363536453734363937343739413430423835303934343439343434333 7
323635363137343635413533344134333241303135383030433439364537343635373236453 6
313643343336353732373441313032383030303832303146464130313938303130344436313 6
453637343537383734363537323645363136433433336353732373441313032383030303832 30
314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201B0A18201A4808201A03C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038313746
393031463744413137423830303130313831313034333431353234343244343135303530344 3
343934333431353434393446344541323042383230394130303030303034313030303032303 0
```

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```
3031383331343434363936363636363537323635364537343639363136433439363436353645
3734363937343739413430423835303934343439343434333732363536313734363541353334
4134333241303135383030433439364537343635373236453631364334333635373237344131
3032383030303832303146464130313938303130344436313645363734353738373436353732
3645363136433433363537323734413130323830303038323031466463030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000817F901F7DA17B800101811043415244 2D4150504C494341544
94F4EA20B8209A0000004100002000183144469666665726 56E7469616C4964656E74697479A
40B85094449444437265617465A534A432A015800C496E7465726E616C43657274A1028000820
1FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000817F901F7DA17B800101811043415244 2D4150504C494341
54494F4EA20B8209A0000004100002000183144469666665726 56E7469616C4964656E746974
79A40B85094449444437265617465A534A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDCreate
access rule of the A00000041000020001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
```

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```
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDDelete access rule of the A00000041000020001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F7DA17B8001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000200018314446966666572656E7469616C4964656E74697479A40B8509
44494444656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000817F901F7DA17B8001018110434152442D4150504C494341544
94F4EA20B8209A000000410000200018314446966666572656E7469616C4964656E74697479A
40B850944494444656C657465A534A432A015800C496E7465726E616C43657274A1028000820
1FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820201A18201FDA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201A03C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303038313746393031463744413137423830303130313831313034333431
3234343244343135303530344334393433343135343439344634454132304238323039413030
3030303034313030303032303030313833313434343639363636363635373236353645373436
3936313643343936343635364537343639373437394134304238353039343434393434343436
3536433635373436354135333441343332413031353830304334393645373436353732364536
3136433433363537323734413130323830303038323031464641303139383031303444363136
```

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```
4536373435373837343635373236453631364334333635373237344131303238303030383230
314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201B0A18201A4808201A03C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038313746
393031463744413137423830303130313138313130343334313532343432443431353035303443
343934333431353433493446344541323042383230394130303030303034313030303032303030
303138333134343436393636363636363537323635364537343639363136433439363436353645
373436393734373941343042383530393434343934343434363536433635373436354135333 4
413433241303135383030433439364537343635373236456361364334333635373237344131
303238303030383230314646413031393830313034443631364536373435373837343635373 2
364536313643343336353732373441313032383030303832303146463030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000817F901F7DA17B800101811043415244 2D4150504C494341544
94F4EA20B8209A0000004100002000183144469666665726 56E7469616C4964656E74697479A
40B850944494444656C657465A534A432A015800C496E7465726E616C43657274A1028000820
1FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000817F901F7DA17B800101811043415244 2D4150504C494341
54494F4EA20B8209A0000004100002000183144469666665726 56E7469616C4964656E746974
79A40B850944494444656C657465A534A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645364652D5443
2D53657373696F6E49442D328100821C536D617274636172645364652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423939303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDDelete
access rule of the A00000041000020001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the A00000041000020001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A17480010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000020001830D417574686F72697A6174696F6EA40B860941434C4D6F6469
6679A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>24</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524424D41505043494341544
94F4EA20B8209A0000004100002000183OD417574686F72697A6174696F6EA40B860941434C4
D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201F3A18201EFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369646 52D54432D53657373696F6E49442D32818201923C
6E73323A5472616E736D69742078D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303037413746393031463736413137343830303130313831313034333431 35
3234343244343135303530343439343334313534343934463445413230423832303941303030
3030303043130303030323030303138333044343137353734363836463732363937413631373
34363936463645433430423836303934313433344433444364636343639363637394135333441
343332413031303830304334393645373436353732364536313643343336353732373441313030
3238303030383230314646413031393830313034443631364536373435373837343635373236
4536313643343336353732373441313032383030303832303146463030303C2F496E707574
4150445 3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>24</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201A2A1820196808201933C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303037413746
393031463736413137343830303130313831313034333431353234343244343135303534 43
343934333431353434393446344541323042383230394130303030303030343130303030323030
303138333044343137353734363836463732363937413631373436393646364541343042383 6
303934313433344334443646363436393637394135333441343332413031353830304334 39
364537343635373236453631364334333635373237344131303238303030383230314646413 0
313938303130344436313645363734353738373436353732364536313643343336353732373 4
413130323830303038323031464630303030 3C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E820641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000007A7F901F76A17480010181104341524 42D4150504C494341544
94F4EA20B8209A000000410000200018 30D417574686F72697A6174696F6EA40B860941434C4
D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D6
16E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
```

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```
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200007A7F901F76A17480010181104341524 42D4150504C494341
54494F4EA20B8209A00000041000020001830D417574686F72697A6174696F6EA40B86094143
4C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the A00000041000020001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to modify the CardApplicationList access rule of the
A00000041000020001 application. This
      ACLModify shall fail as the previous ACLModify restricts permissions to
modify A00000041000020001's ACLs. Ensure the
      ACLModify access rule is enforced.</description>
  <encodedData
type="xs:hexBinary">7F901F51A14F8001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000200001830F436172644170706C69636174696F6EA41582134361726441
70706C69636174696F6E4C697374A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000557F901F51A14F8001018110434152442D4150504C494341544
```

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```
94F4EA20B8209A0000004100002000183OF436172644170706C69636174696F6EA4158213436
172644170706C69636174696F6E4C697374A5038201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201A9A18201A5A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874747O3A2F2F736D6172746172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201483C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D6122300A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A2020202030C496E707574415044553E303043
323030303030303030303535374639303146353141313446383030313031383131303433343135
323434324434313530353034433439343334313534343934463445413230423832303941303O
303030303431303030303O32303030313833304634333631373236343431373037303643363936
333631373436393646364541343135383231333343336313732363434313730373036433639O
333631373436393646364534433639373337341353033383230313030303030303C2F496E70
7574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820158A182014C808201483C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035353746
393031463531413134463830303130313138313130343334313532343432443431353035303443
343934333431353434393446344541323042383230394130303030303034313030303032303030
303138333046343336313732363434313730373036433639363336313734363936436454134
313538323133343336313732363434313730373036433639363336313734363936436453443
363937333734413530333832303130303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000557F901F51A14F80010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100002000183 0F436172644170706C69636174696F6EA4158213436
172644170706C69636174696F6E4C697374A5038201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000557F901F51A14F80010181104341524 42D4150504C494341
54494F4EA20B8209A0000004100002000183 0F436172644170706C69636174696F6EA4158213
436172644170706C69636174696F6E4C697374A50382010000</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90202682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544944900</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F90202682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544944900</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393032303236383232343431353034393546353334 35
343335353532343935343539354634333446344534343439353434393446344554634453446
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F5808 1F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746393032303232363832323434
313530343935463533343534333535353234393534353935463433344634453434393534343
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90202682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494549449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>438</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to modify the
CardApplicationList access rule of the
     A00000041000020001 application. This ACLModify shall fail as the
previous ACLModify restricts permissions to modify
     A00000041000020001's ACLs. Ensure the ACLModify access rule is
enforced.</description>
  <encodedData
type="xs:hexBinary">7F90202682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the InternalCert DID. This, combined with
MangExternalCert, shall provide us with management
     permissions to update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

     <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031443746393031423139413131373830303130313141313032383030303832
304334393645373436353732364536313643433336353732373438333030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
423139413131373830303130313141313032383030303832304334393645373436353732364536
313643433336353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800101A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A33543732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413133033238303030383232303634313530
343935463446344239303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303143304341313032383830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert DID. This, combined with
      MangExternalCert, shall provide us with management permissions to
update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the MangExternalCert DID. This shall provide us
with management permissions to update the
      certificate.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
```

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```
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F74486 E646C653E0A202020203C496E707574415044553E30304332
303030303030303032313746930314231444131314238303031303141313032383030303832
313034443631364536373435373837343635373236453631364334333635373237343833303 0
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032313746393031
42314441313142383030313031413130323830303038323130444363136453637343537383 7
34363537323645363136433433363537323734383330303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800101A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
  <annexAId>27</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303143304341313032383830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>470</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
MangExternalCert DID. This shall provide us with
     management permissions to update the certificate.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 2-DS1 A00000041000020001 dataset. All
authenticated users, except Beta, can read this
     information. Only management can update this information.</description>
  <encodedData
type="xs:hexBinary">7F8F738202F1A18202ED800101810322D445331A28202DF301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
6D656444617461A10B8309445349437265617465A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174686F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF307A80094E616D656444617461A10983074453494C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100307A80094E616D656444617461A109830744
534952656164A262A460A015800C496E7465726E616C43657274A10280008201FFA547A00E80
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01FFA01A8011416C706861457874657 26E616C43657274A1028000820100308180080 94E616D
656444617461A10F830D4461746153657453656C656374A262A460A015800C496E7465726E61
6C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA01980104D616E67
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7274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>

  <InputAPDU>00C200000002F77F8F738202F1A18202ED8001018105322D445331A28202DF3
01F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E6
16D656444617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8
0094E616D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E6
16C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7
465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A
432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
E616C43657274A10280008201FF307A80094E616D656444617461A10983074453494C697374A
262A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA
10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A80114
16C706861457874657265726E616C43657274A1028000820100307A80094E616D656444617461A10
9830744534952656164A262A460A015800C496E7465726E616C43657274A10280008201FFA54
7A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FFA01A8011416C706861457874657265726E616C43657274A1028000820100308180800
94E616D656444617461A10F830D4461746153657453656C656374A262A460A015800C496E746
5726E616C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA01980104
D616E6745787465726E616C43657274A10280008201FFA01A8011416C706861457874657265726E6
16C43657274A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318206EDA18206E9A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C486C69656E74417070536964652D54432D53657373696F6E49442D328182068C3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6966633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E7075744415044553E303043
323030303030303030324637374638463733383230324631413138323032454438303031303138
313035333232443434353333331413238323032444633303146383030443431373537343638363
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344132303338313031464633303444383030393445363136443635363434343631373436314
131304138333038343435333439353737323639373436354132333441343332413031353830
433439364537343635373236453631364334333635373237344131303238303030383230314
646413031393830313034443631364536373435373837343635373236453631364334333635
323734413130323830303038323031464633303445383030393445363136443635363434343
631373436314131304238333039343435333439343337323635363137343635413233344134
324130313538303043343936453734363537323645363136433433363537323734413130323
830303038323031464641303139383031303444363136453637343537383734363537323645
313643343336353732373441313032383030303832303146463330344538303039344536313
644363534343436313734363141313042383330393434353334393433373236353631373436
354132333441343324130313538303043343936453734363537323645363136433433363537
323734413130323830303038323031464641303139383031303444363136453637343537383
734363533723645363136433433363537323734413130323830303038323031464633303535238
```

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3030443431373537343638364637323639374136313734363936463645413130423836303934
3134333443344436463634363936363739413233344134333241303135383030433439364537
3436353732364536313643343336353732373441313032383030303832303146464130313938
3031303444363136453637343537383734363537323645363136433433336353732373441313 0
3238303030383230314646333037413830303934453631364436353634343436313734363141
3130393833303734343533343934433639373337344132363241343630413031353830304334
3936453734363537323645363136433433336353732373441313032383030303832303146464 1
3534374130304538303035343334383530343934454131313032383030303832303146464130 31
3938303130344436313645363734353738373436353732364536313643343336353732373441
3130323830303038323031464641303141383031313431364337303638363134353738373436
3537323645363136433433336353732373441313032383030303832303130303303741383030
3934453631364436353634343436313734363141313039383330373434353334393532363536
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3934454131303238303030383230314646413031393830313034443631364536373435373837
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3031313431364337303638363134353738373436353732364536313643343336353732373441
3130323830303038323031303033303831383038303039344536313644363536343434363137
3436314131304638333044343436313734363135333635373435333635364336353633373441
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3441313032383030303832303146464135343741303045383030353433343835303439344541
3130323830303038323031464641303139383031303444363136453637343537383734363537
3236453631364334333635373237344131303238303030383230314646413031413830313134
3136433730363836313435373837343635373236453631364334333635373237344131303238
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69743E</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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  <encodedData
type="xs:hexBinary">7F9F2D82069CA18206908082068C3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303246373746
384637333832303246314131383230324544383030313031383130353332324434343533333 1
413238323032444633303146383030443431373537343638364637323639374136313734363 9
364636454131303938363037343134333443344334433693733373441323033383130314646333 0
344438303039344536313644363536343434363137343631413130413833303834343533343 9
353737323639373436354132333441343332413031353830304334393645373436353732364 5
363136433433363537323734413130323830303038323031464641303139393830313034443631
364536373435373837343635373236453631364334333635373237344131303238303030383832
303146463330344538303039344536313644363536343434363137343631413130423833303 9
343435333439343337323635363137343635413233344134333241303135383030433439364 5
373436353732364536313643343336353732373441313032383030303832303146464130313 9
383031303444363136453637343537383734363537323645363136433433336353732373441 3
303238303030383230314646333034453830303934453631364436353634343436313734363 1
413130423833303934343533343934343635364336353734363541323034413433324130313 5
383030433439364537343635373236453631364334333635373237344131303238303030383 2
303146464130313938303130344436313645363734353738373436353732364536313643343 3
363537323734413130323830303038323031464633303532383030443431373537343638364 6
373236393741363137343639364636454131304238363030343134333443344436463634363 9
363637394132333441343332413031353830304334393645373436353732364536313643343 3
363537323734413130323830303038323031464641303139383031303444363136453637373 5
373837343635373236453631364334333635373237344131303238303030383230314646333 0
374138303039344536313644363536343434363137343631413130393833303734343533343 9
344336393733373441323632413436304130313538303043343936453734363537323645363 1
364334333635373237344131303238303030383230314646413534374130304538303035343 3
343835303439344541313032383030303832303146464130313938303130344436313645363 7
343537383734363537323645363136433433635373237344131303238303030383230314646
413031413830313134313643373036383631343537383734363537323645363136433403536 1
373237344131303238303030383230313030333037413830303934453631364436353634343 4
363137343631413130393833303734343533343935323635363136344132363241343630413 0
313538303043343936453734363537323645363136433433363537323734413130323830303 0
383230314646413534374130304538303035343333438353034393445413130323830303038 2
303146464130313938303130344436313645363734353738373436353732364536313643343 3
363537323734413130323830303038323031464641303141383031313431364337303638363 1
343537383734363537323645363136433433363537323734413130323830303038323031303 0
333038313830383030393445361364436353634343436313734363141313046383330443434
363137343631353336353734353336353643363536333734413236324134363041303135383 0
304334393645373436353732364536313643343336353732373441313032383030303832303 1
464641353437413030453830303534333438353034393445413130323830303038323031464 6
413031393830313034443631364536373435373837343635373236453631364334333653732
373441313032383030303832303146464130314138303131343136433730636836313435373 8
373436353732364536313643343336353732373441313032383030303832303130303030303 0
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codedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002F77F8F738202F1A18202ED8001018105322D445331A28202DF3
01F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E6
16D656444617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8
0094E616D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E6
16C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7
465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A
432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
E616C43657274A10280008201FF307A80094E616D656444617461A109830744534944C697374A
262A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA
10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A80114
16C70686145787465726E616C43657274A1028000820100307A80094E616D656444617461A10
983074453495265616 4A262A460A015800C496E7465726E616C43657274A10280008201FFA54
7A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FFA01A8011416C70686145787465726E616C43657274A1028000820100308180800
94E616D656444617461A10F830D4461746153657453656C656374A262A460A015800C496E746
5726E616C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA01980104
D616E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E6
16C43657274A10280008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>478</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F738202F1A18202ED8001018105322D445331A28202
DF301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D8009
4E616D656444617461A10A830844534957726974657A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
4E80094E616D656444617461A10B830944534943726561746 5A234A432A015800C496E746572
6E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000
8201FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C49
6E746572</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF6E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF3052800D417574686F726974696F6EA10B86
0941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF307A80094E616D6564446174
61A10983074453494C697374A262A460A015800C496E7465726E616C43657274A10280008201
FFA547A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FFA01A8011416C70686145787465726E616C43657274A1028000820100307A
80094E61</encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000F96D656444617461A1098307445349526561 64A262A460A0
15800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C706861
45787465726E616C43657274A1028000820100308180800 94E616D656444617461A10F830D44
617461536574536 56C656374A262A460A015800C496E7465726E616C43657274A10280008201
FFA547A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FFA01A8011416C70686145787465726E616C43657274A102800082010000</
encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>483</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F740882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D6122E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637343038383230363431
353034393546344634423930303033C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 2-DS1
A00000041000020001 dataset. All authenticated users,
     except Beta, can read this information. Only management can update this
information.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 2-DS1-DSI1 DSI. A DataSetCreate call automatically
selects the new DataSet. Ensure that a DSI
     can be created in the 2-DS1 DataSet without needing to invoke
DataSetSelect.</description>
  <encodedData
type="xs:hexBinary">7F8F7B46A144800101810A322D4453312D44534931823349443A2031
323334353B20436C6173733A20433B2052657374726963746963F6E733A204E6F6E653B20506F
696E74733A203132</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004A7F8F7B46A144800101810A322D4453312D445349318233494
43A20313233343533B20436C6173733A20433B2052657374726963746963F6E733A204E6F6E653
B20506F696E74733A2031320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820193A182018FA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
```

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```
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201323C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030344137463846374234364131343438303031303138313041333232443434
34353333313244343435333439333138323333343934343341323033313332333333343335333
42323034333643363137333733333413230343333423230353236353733373437323639363337
34363936463645373333413230344536463645363533423230353036463639364537343733333
41323033313332303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D6974
3E</encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820142A1820136808201323C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303034413746
384637423436413134343830303130313831304133323244343435333331324434343533343439
333138323333343934343341323033313332333333343335334232303433364336313733333
334132303433334232303532363537333734373236393633373436393646364537333341323
34453646364536353342323035303646363936453734373333413230333133323030303C2F
496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004A7F8F7B46A144800101810A322D4453312D445349318233494
43A2031323334353B20436C6173733A20433B2052657374726963746963F6E733A204E6F6E653
B20506F696E74733A2031320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004A7F8F7B46A144800101810A322D4453312D445349318233
49443A2031323334353B20436C6173733A20433B2052657374726963746963F6E733A204E6F6E
653B20506F696E74733A20313200</encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637433038383230363431353034393546346344634239
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637433038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 2-DS1-DSI1 DSI.
A DataSetCreate call automatically selects
      the new DataSet. Ensure that a DSI can be created in the 2-DS1 DataSet
without needing to invoke DataSetSelect.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 2-DS2 dataset. All authenticated users, except
Beta, can read this information. Only
      management can update this information.</description>
  <encodedData
type="xs:hexBinary">7F8F738202F1A18202ED8001018105322D445332A28202DF301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
```

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6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF307A80094E616D656444617461A10983074453494C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100307A80094E616D656444617461A109830744
534952656164A262A460A015800C496E7465726E616C43657274A10280008201FFA547A00E80
05434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FFA01A8011416C70686145787465726E616C43657274A1028000820100308180080094E616D
656444617461A10F830D4461746153657453656C656374A262A460A015800C496E7465726E61
6C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA01980104D616E67
45787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E616C4365
7274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer. Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

  <InputAPDU>00C2000000 02F77F8F738202F1A18202ED8001018105322D445332A28202DF3
01F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E6
16D656444617461A10A830844534957 2697465A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8
0094E616D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E6
16C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820
1FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7
465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A
432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
E616C43657274A10280008201FF307A80094E616D656444617461A10983074453494C697374A
262A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA
10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A80114
16C70686145787465726E616C43657274A1028000820100307A80094E616D656444617461A10
983074453495 2656164A262A460A015800C496E7465726E616C43657274A10280008201FFA54
7A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A10
280008201FFA01A8011416C70686145787465726E616C43657274A1028000820100308180800
94E616D656444617461A10F830D4461746153657453656C656374A262A460A015800C496E746
5726E616C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA01980104
D616E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E6
16C43657274A10280008201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>

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```
  <refId>509</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318206EDA18206E9A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182068C3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504455 3E303043
323030303030303032463737463846373338323032463141313832303245443830303130313138
313035333232443434353333324132383230324446333031463830304434313735373436383636
463732363937413631373436393646364541313039383630373431343344334433963937333744
344132303338313031464633303444383030393445363136443635363434343631373436314136
313041383330383434353334393537373236393734363541323334413433324130313538303043
433439364537343635373236456361364334333635373237344131303238303030383230314646
464130313938303130344436313645363734353738373436353732364536313643343336353744
323734413130323830303038323031464633303445383030393445363136443635363434343636
313734363141313042383330393434353334393433373236353631373436354132333441343344
324130313538303043343936453734363537323645363136433433363537323734413130323838
303030383230314646413031393830313034443631364536373435373837343635373236456361
364334333635373237344131303238303030383230314646333035323830303038323031464641
303139383031303444363136453637343537383734363537323645363136433433363537323734
413130323830303038323031464641303139383031303444363136453637343537383734363537
323645363136433433363537323734413130323830303038323031464641303139383031303444
363136453637343537383734363537323645363136433433363537323734413130323830303038
323031464641303139383031303444363136453637343537383734363537323645363136433433
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383734363537323645363136433433363537323734413130323830303038323031464641303139
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363136433433363537323734413130323830303038323031464641303139383031303444363136
453637343537383734363537323645363136433433363537323734413130323830303038323031
464641303139383031303444363136453637343537383734363537323645363136433433363537
323734413130323830303038323031464641303139383031303444363136453637343537383734
363537323645363136433433363537323734413130323830303038323031464641303139383031
303444363136453637343537383734363537323645363136433433363537323734413130323830
303038323031464641303139383031303444363136453637343537383734363537323645363136
433433363537323734413130323830303038323031464641303139383031303444363136453637
343537383734363537323645363136433433363537323734413130323830303038323031464641
303139383031303444363136453637343537383734363537323645363136433433363537323734
413130323830303038323031464641303139383031303444363136453637343537383734363537
323645363136433433363537323734413130323830303038323031464641303139383031303444
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323830303038323031464641303139383031303444363136453637343537383734363537323645
363136433433363537323734413130323830303038323031464641303139383031303444363136
453637343537383734363537323645363136433433363537323734413130323830303038323031
464641303139383031303444363136453637343537383734363537323645363136433433363537
323734413130323830303038323031464641303139383031303444363136453637343537383734
363537323645363136433433363537323734413130323830303038323031464641303139383031
303444363136453637343537383734363537323645363136433433363537323734413130323830
303038323031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D
69743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>510</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82069CA18206908082068C3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D6128E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303032463737 46
384637333832303246314131383230324544383030313031383130353332324434343533333 2
413238323032444633031463830304434313735373436383646373236393741363137343639
364636454131303938363037343134333443344334336393733373441323033383130314646 3330
344438303039344536313644363536343434363137343631413130413833303834343533343 9
353737323639373436354132333441343332413031353830304334393645373436353732364 5
363136433433363537323734413130323830303038323031464641303139383031303444363 1
364536373435373837343635373236453631364334333635373237344131303238303030383 2
303146463330344538303039344536313644363536343434363137343631413130423833303 9
343435333439343337323635363137343635413233344134333241303135383030433439364 5
373436353732364536313643343336353732373441313032383030303832303146464130313 9
383031303444363136453637343537383734363537323645363136433433363537323734413 1
303238303030383230314646333034453830303934453631364436353634343436313734363 1
413130423833303934343533343934343635364336353734363541323334413433324130313 5
383030433439364537343635373236453631364334333635373237344131303238303030383 2
303146464130313938303130344436313645363734353738373436353732364536313643343 3
363537323734413130323830303038323031464633303532383030443431373537343638364 6
373236393741363137343639364636454131304238363039343134333443344436436363439
363637394132333441343332413031353830304334393645373436353732364536313643343 3
363537323734413130323830303038323031464641303139383031303444363136453637343 5
373837343635373236453631364334333635373237344131303238303030383230314646330
374138303039344536313644363536343434363137343631413130393833303734343533343 9
344336393733373441323632413436304130313538303043343936453734363537323645363 1
364334333635373237344131303238303030383230314646413534374130304538303035343 3
```

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```
343835303439344541313032383030303832303146464130313938303130344436313645363734353738373436353732364536313643343336353732373441
```

```
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F738202F1A18202ED800101810532D445332A28202
DF301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D8009
4E616D656444617461A10A830844534957726974657A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
4E80094E616D656444617461A10B830944534943726561746 5A234A432A015800C496E746572
6E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000
8201FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C49
6E746572</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF6E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B86
0941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF307A80094E616D6564446174
61A10983074453494C697374A262A460A015800C496E7465726E616C43657274A10280008201
FFA547A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FFA01A8011416C70686145787465726E616C43657274A1028000820100307A
80094E61</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>30</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000F96D656444617461A109830744534952656164A262A460A0
15800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C706861
45787465726E616C43657274A1028000820100308180094E616D656444617461A10F830D44
617461536574536 56C656374A262A460A015800C496E7465726E616C43657274A10280008201
FFA547A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FFA01A8011416C706861457874 5726E616C43657274A102800082010000</
encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F740882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646
2D53657373696F6E49442D328100821C536D617274636172645369646
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465
2D54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E374638463734303838323036343 1
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 2-DS2 dataset.
All authenticated users, except Beta, can
     read this information. Only management can update this
information.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 2-DS2-DSI1 DSI. A DataSetCreate call automatically
selects the new DataSet. Ensure that a DSI
     can be created in the 2-DS1 DataSet without needing to invoke
DataSetSelect.</description>
  <encodedData
type="xs:hexBinary">7F8F7B6BA169800101810A322D4453322D44534931825849443A2036
373839303B20436C6173733A204D3B20526573747269637469 6F6E733A204E6F6E653B205661
6C6964204C6F63616C69746965733A204175737472616C69616E205761746572733B20506F69
6E74733A203132</encodedData>
</invAspect>
<invAspect>
  <refId>528</refId>
```

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```
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000006F7F8F7B6BA169800101810A322D4453322D445349318258494
43A2036373839303B20436C6173733A204D3B20526573747269637469 6F6E733A204E6F6E653
B2056616C6964204C6F63616C69746965733A204175737472616C69616E205761746572733B2
0506F696E74733A2031320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201DDA18201D9A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369646 52D54432D53657373696F6E49442D328182017C3C
6E73323A5472616E73 6D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303036463746384637423642413136393830303130313831304133323243434
34353333323243434353333439333138323538343934343341323033363337333833393333033
42323034333643363137333733334132303444334223203532363537333734373239363933373
34363936463645373333413230344536463645363533423230353636313643363936343230343
43364636333631364336393734363936353733334132303431373537333734373231364336393
63631364532303537363137343635373237333342320305303646363936453734373333413230
3033313332303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
```

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```
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82018CA18201808082017C3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303036463746
384637423642413136393830303130313038313041333232443434353333323244343435333439
333138323538343934343341323033363337333833393330334232303433364363137333733
334132303444334232303532363537333734373236393633734363936463645373333413230
344536463645363533423230353636313643363936343230344336463633631364336393734
363936353733334132303431373537333734373236313643363936313645323035373631373 4
363537323733334232303530364636393645373437333341323033313332303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000006F7F8F7B6BA169800101810A322D4453322D445349318258494
43A2036373839303B20436C6173733A204D3B20526573747269637469 6F6E733A204E6F6E653
B2056616C6964204C6F63616C69746965733A204175737472616C69616E205761746572733B2
0506F696E74733A2031320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>534</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200006F7F8F7B6BA169800101810A322D4453322D445349318258
49443A2036373839303B20436C6173733A204D3B20526573747269637469 6F6E733A204E6F6E
653B2056616C6964204C6F63616C69746965733A204175737472616C69616E20576174657273
3B20506F696E74733A20313200</encodedData>
</invAspect>
<invAspect>
  <refId>535</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637433038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637433038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 2-DS2-DSI1 DSI.
A DataSetCreate call automatically selects
      the new DataSet. Ensure that a DSI can be created in the 2-DS1 DataSet
without needing to invoke DataSetSelect.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>543</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the AccessLog dataset. Only the card holder (CHPIN)
can read this information and only if logging
      has been enabled by authenticating with the global LogAccess DID. The
information is updated by the DataSetSelect
      method. Ensure that a DataSet with the same name can exist in multiple
card applications.</description>
  <encodedData
type="xs:hexBinary">7F8F73820281A182027D8001018109416363657373 4C6F67A282026B
301C80094E616D656444617461A10A830844534957726979746 5A203820100301F800D41757468
6F726974617469 6F6EA109860741434C4C697374A2038101FF304180094E616D656444617461
A1098307445349 4C697374A229A427A015800C496E7465726E616C43657274A10280008201FF
A00E8005434850494EA10280008201FF304E80094E616D656444617461A10B83094453494372
656174657 A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E
6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10B830944
534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F72697A6174
696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305580094E61
6D656444617461A1098307445349526561 64A23DA43BA015800C496E7465726E616C43657274
A10280008201FFA00E8005434850494EA10280008201FFA012800941636365737 34C6F67A102
810082010030819B80094E616D656444617461A10F830D4461746153657453656C656374A27D
A47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C
706861457874657 26E616C43657274A1028000820100A019801042657461457874657 26E616C
43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>544</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000002877F8F73820281A182027D80010181094163636573734C6F67A
282026B301C80094E616D656444617461A10A830844534957726974657A203820100301F800D4
17574686F72697A6174696F6EA109860741434C4C697374A2038101FF304180094E616D65644
4617461A10983074453494C697374A229A427A015800C496E7465726E616C43657274A102800
08201FFA00E8005434850494EA10280008201FF304E80094E616D656444617461A10B8309445
349437265617465A234A432A015800C496E7465726E616C43657274A10280008201FFA019801
04D616E6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10
B830944534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201F
FA01980104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F726
97A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E674578746572E616C43657274A10280008201FF30558
0094E616D656444617461A1098307445349526566164A23DA43BA015800C496E7465726E616C4
3657274A10280008201FFA00E8005434850494EA10280008201FFA012800941636365737 34C6
F67A10281008201003081 9B80094E616D656444617461A10F830D4461746153657453656C656
374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80054348504
94EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8
011416C706861457874657265726E616C43657274A1028000820100A019801042657461457874657
26E616C43657274A10280008201000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182060DA1820609A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818205AC3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303032383737463846373338323032383141313832303237443830303130 3
13039343136333633363537333733344336463637413238323032364233301433830303934
45363136443635363434343631373436314131304138333038343435333439353737323639 37
34363541323033383230313030333031463830304434313735373436383646372363937 4136
31373436393646364541313039383630373431343334433443363937333734413230333831 30
31464633303431383030393445363136443635363434343631373436314131303938333037 34
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```
34353334393443363937333734413232394134323741303135383030433439364537343635373236453631364334333635373237344131303238303038323031464641303045383030353433343835303439344541313032383030303832303146464130304538303035343333438353034393445413130323830303038323031464641303139383031303444363136453637343537383734363537323645363136433433363537323734413130323830303038323031464633303535383030393445363136443635363434343631373234363134133444134334241303135383030373434353334393532363536313634413233444134334241303138303033373434353334393532363536313634413233444134334241303138303033373434353334393532363536313634413233444134334241303138303033
```

```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8205BCA18205B0808205AC3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303032383737746
384637333832303238314131383230323744383030313031383130393431363336333633733
373334433646363741323832303236423330314338303039344536313644363536343443631
373436314131304138333038343435333439353737323639373436354132303383230313030
333031463830304434313735373436383646373236393741363137343639364636454131303 9
383630373431343334433443336393733373441323033383130314646333034313830303934 5
363136443635363434343631373436314131303938333037343435333439344336393737333734
413232394134323741303135383030433439364537343635373236456361364334336353732
373441313032383030303832303146464130304538303035343334383530343344541313032
383030303832303146463330344538303039344536313644363536343434363137343631413 1
304238333039343435333439343337323635363137343635413233344134333241303135383 0
304334393645373436353732364536313643343336353732373441313032383030303832303 1
464641303139383031303444363136453637343537383734363537323645363136433433363 5
373237344131303238303030383230314646333034453830303934453631364436353634343 4
363137343631413130423833039343435333439343436353643303537343635413233344134
333241303135383030433439364537343635373236453631364334333635373237344131303 2
383030303832303146464130313938303130344436313645637343537383734363537323645
363136433433363537323734413130323830303038323031464633303532383030434313735
373436383646373236393741363137343639364636454131304238363039343134333443344
364636343639363673941323334413433324130313538303043343936453734363537323645
363136433433363537323734413130323830303038323031464641303139383031303444363 1
364536373435373837343635373236453631364334333635373237344131303238303030383 2
303146463330355358303039344536313644363536343434363137343631413130393833037
343435333439353236353631363441323344134334241303135383030433439364537343635
373236453631364334333635373237344131303238303030383230314646413036532413030 4
343334383530343934454131303238303030383230314646413031323830303934313633363 3
363537333733344336463637413130323831303038323031303033303831394238303039344 5
363136443635363434343631373436314131304638333044343436313734363135333635373 4
353336353643363536333734413237444134374241303135383030433439364537343635373 2
364536313643343336353732373441313032383030303832303146464135363241303045383 0
303534333438353034393445413130323830303038323031464641303139383031303444363 1
364536373435373837343635373236453631364334333635373237344131303238303030383 2
303146464130314138303131343136433730363836313435373837343635373236453631364 3
343336353732373413130323830303038323031303041303139383031303432363537343631
343537383734363537323645363136433433363537323734413131303238303030383230313030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>549</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>

  <InputAPDU>00C200000002877F8F73820281A182027D8001018109416363657373 4C6F67A
282026B301C80094E616D656444617461A10A8308445349577269746 5A203820100301F800D4
17574686F72697A6174696F6EA109860741434C4C697374A2038101FF304180094E616D65644
4617461A10983074453494C697374A229A427A015800C496E7465726E616C43657274A102800
08201FFA00E8005434850494EA10280008201FF304E80094E616D656444617461A10B8309445
349437265617465A234A432A015800C496E7465726E616C43657274A10280008201FFA019801
04D616E6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10
B830944534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201F
FA01980104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F726
97A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657
274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30558
0094E616D656444617461A10983074453495265616 4A23DA43BA015800C496E7465726E616C4
3657274A10280008201FFA00E8005434850494EA10280008201FFA012800941636365737 34C6
F67A10281008201003081 9B80094E616D656444617461A10F830D4461746153657453656C656
374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80054348504
94EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8
011416C70686145787465726E616C43657274A1028000820100A019801042657461457874657
26E616C43657274A1028000820100 0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>550</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F73820281A182027D8001018109416363657373 4C6F
67A282026B301C80094E616D656444617461A10A8308445349577269746 5A203820100301F80
0D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304180094E616D65
6444617461A10983074453494C697374A229A427A015800C496E7465726E616C43657274A102
80008201FFA00E8005434850494EA10280008201FF304E80094E616D656444617461A10B8309
445349437265617465A234A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF304E80094E616D656444617461
A10B8309</encodedData>
</invAspect>
<invAspect>
  <refId>551</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
```

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```
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF44534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF305580094E616D656444617461A109830744534952656564A23DA43B
A015800C496E7465726E616C43657274A10280008201FFA00E80054348504944A10280008201
FFA012800941636365737734C6F67A10281008201003081 9B80094E616D656444617461A10F83
0D446174</encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C2000089615365745365 6C656374A27DA47BA015800C496E746572
6E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D61
6E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E616C
43657274A1028000820100A019801042657461457874657 26E616C43657274A1028000820100
00</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F740882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E3746384637343038383230363431353034393546344634423930
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A737464A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637343038383230363431
353034393546344634423930303C2F4F757470757441504 553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the AccessLog
dataset. Only the card holder (CHPIN) can read
     this information and only if logging has been enabled by authenticating
with the global LogAccess DID. The
     information is updated by the DataSetSelect method. Ensure that a
DataSet with the same name can exist in multiple
```

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```
      card applications.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>563</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the AccessLog DSI. Ensure that a DSI with the same
name can exist in multiple card applications.</description>
  <encodedData
type="xs:hexBinary">7F8F7B12A1108001018109416363657373 4C6F678200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C20000000167F8F7B12A1108001018109416363657373 4C6F6782000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031363746384637423132413131303830303130313831303934313633363
3635373337333443364636373832303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>566</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>568</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E7075744415044553E3030433230303030303030303031363746384637
42313241313130383030313031383130393431363336333635373337333443364636373832303
30303030303C2F496E70757441504455 3E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F8F7B12A11080010181094163636573734C6F6782000000<
/InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F8F7B12A110800101810941636636573734C6F67820000
</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637433038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637433038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the AccessLog DSI.
Ensure that a DSI with the same name can
     exist in multiple card applications.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800101A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800101A10280008205434850494E83000000<
/InputAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031363746393031423132413131303830303130314131303238303030383832
303534333438353034393445383330303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>584</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
```

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```
6C653E0A202020203C496E707574415044553E303043323030303030303030313637463930314231324131313038303031303141313032383030303832303534333438353034393445383330303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>585</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer. Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800101A102800082054348504 94E83000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>586</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C20000167F901B12A110800101A102800082054348504 94E830000</encodedData>
</invAspect>
<invAspect>
  <refId>587</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>592</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423934303030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the CHPIN DID. This shall provide us with
     permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Post-condition: Retrieve the A00000041000020001 card
application access rules. Ensure that the ACL has
     been updated appropriately.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000020001</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A00000041000020001 0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323837463930314432344131323238303031303138313130343334313532
343432443431353035303443343934333431353434393446344541323042383230394130303
0303030343130303030323030303130303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>599</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A737464343A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
443234413132323830303130313038313130343334313532343432443431353035303443343934
333431353434393446344541323042383230394130303030303030343130303030323030303130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100002000 10000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010181104341524 42D4150504C494341
54494F4EA20B8209A000000410000 2000100</encodedData>
</invAspect>
<invAspect>
  <refId>603</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820379A182036DA08203693 01F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444 6666666572656E7469616C496465
6E74697479A10985074449444C697374A2038101FF3025800A436F6E6E656374696F6EA11881
1643617264417070 6C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
6100</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E65
6374696F6EA11D811B436172644170706C69636174696F6E537461727453657373696F6EA203
8101FF305280094E616D656444617461A10F830D4461746153657443726561746 5A234A432A0
```

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15800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C
43657274A10280008201FF305280094E616D656444617461A10F830D44617461536574446 56C
657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67
45787465726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B
6100</encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">86094143 4D6F64696679A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
59801444696666657265 6E7469616C4964656E74697479A10B85094449444437265617465A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B85094449444465 6E657465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF307E80094E616D6564
6100</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">44617461A10D830B446174615365744C697374A262A460A015800C49
6E7465726E616C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465
726E616C43657274A1028000820100820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820379A182036DA08203693 1F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666572656E7469616C4964656E7469
7479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461745365737 3696F6EA2038101FF305280094E616D656444
617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3052
80094E616D656444617461A10F830D4461746153657444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666657 2656E7469616C4964656E74697479
A10B8509444944437265617465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469666665
72656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```


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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F318207E4A18207E0A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328182079C3C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031453832303337394131383230333644413038
323033363933303146383030443431373537343638364637323639374136313734363964636
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303134343436393636363636353732363536453734363936313643343936343633536453734 36
393734373941313039383530373434343934343443363937333734413230333831303146463 33
303242383030413433364636453645363536333734363936463645413131383831313634333 6
313732363434313730373036433639363336313734363936463645343336463645363536
333734413230333831303146463330324438303046343336313732363434313730373036433 6
393633363137343639364636454131313538323133343336313732363434313730373036433 6
393633363137343639364636453443363937333734413230333831303146463330324538303 0
413433364636453645363536333734363936463645413131423831313934333631373236343 4
313730373036433639363336313734363936463645343439373336333646364536453635363536
333734413230333831303146463330324538303041343336463645364536353633373436393 6
463645413131423831313934333631373236343431373037303643363936333631373436393 6
463645343536453634353336353733373336393646364541323033383130314646333033038
303041343336463645364536353633734363936463645413131443831314234333631373236
343431373037303643363936333631373436393646364535333734363137323734353336353 7
333733639364636454132303383130314646333035323830303934453631364436353634343
343631373436314131304638333044343436313734363135333635373434333732363536313 7
343635413233344134333241303135383030433439364537343635373236453631364334333 6
353732373441313032383030303832303146464130313938303130344436313645363734343 7
383734363537323645363136433433363537323734413130323830303038323031464633303 5
323830303934453631364436353634343436313734363141313046383330443434363137343 6
313533363537343434363536433363537343635413233344134333241303135383030433439 6
453734363537323645363136433433363537323734413130323830303038323031464641303 1
393830313034443631364536373435373837343635373236453631364334333636537323734 41
313032383030303832303146463330353238303044343137353734363836463732363937413 6
313734363936463645413130423836303934313433344334443646363436393636373941323 3
344134333241303135383030433439364537343635373236453631364334333636537323734 41
313032383030303832303146464130313938303130344436313645363734353738373436353 7
323645363136433433363537323734413130323830303038323031464633303539383031343 4
343639363636363537323635364537343639363136433439363436353645373436393734373 7
394131304238353039343434393434343337323635363137343635413233344134333241303 1
353830304334393645373436353732364536313643343336353732373441313032383030303 8
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333635373237344131303238303030383230314646330305393830313434343639363636363 6
353732363536453734363936313643343936343635364537343639373437394131304204238 530
393434343934343434363536433635373436354132333441343332413031353830304334393 6
453734363537323645363136433433363537323734413130323830303038323031464641303 1
393830313034443631364536373435373837343635373236453631364334333636537323734 41
313032383030303832303146463330374538303039344536313644363536343436313734363 6
314131304438333042343436313734363135333635373434433639373337344132363241343 6
304130313538303043343936453734363537323645363136433433363537323734413130323 8
303030383230314646413534374130304538303035343334383530343934454131303238303 0
303832303146464130313938303130344436313645363734353738373436353732364536313 6
433433363537323734413130323830303038323031464641303141383031313431343643373 036
383631343537383734363537323645363136433433363537323734413130323830303038323 0
313030383230363431353034393546344634423930303 03C2F4F7574707574415044553E0A3C
2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>612</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8207ACA18207A08082079C3C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445553E37463930314538323033337
394131383230333644413038323033363933303146383030443431373537343638364637323
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```

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```
3034443631364536373435373837343635373236453631364334333635373237344131303238
3030303832303146463330353238303039344536313644363536343434363137343631413130
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3136433433363537323734413130323830303038323031466463330353238303044343137353 7
3436383646373236393741363137343639364636454131304238363039343134333443443436
4636343639363637394132333441343332413031353830304334393645373436353732364536
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4536373435373837343635373236453631364334333635373237344131303238303030383230
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3436353645373436393734373941313042383530393434343934343433373236353631373436
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3937343739413130423835303934343439343434343635364336353734363541323334413433
3241303135383030433439364537343635373236453631364334333636373237344131303238
3030303832303146464130313938303130344436313645363734353738373436353732364536
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3937333734413236324134363041303135383030433439345373436353732364536313643334
3336353732373441313032383030303832303146464135343741303045383030353433343835
3034393445413130323830303038323031466461303139383031303444363136453637343537
3837343635373236453631364334333635373237344131303238303030383230314646413031
4138303131343136433730363836313435373837343635373236453631364334333635373237
3441313032383030303832303130303832303631353034393546344634423930303033C2F4F
7574707574415044553E0A3C2F6E73323A5472616E736D69745265737065F6E73653E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

        <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820379A182036DA0820369301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
7479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D656444
617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3052
80094E616D656444617461A10F830D4461746153657444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
```

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0280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469666665
72656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>616</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000020001 card application
     access rules. Ensure that the ACL has been updated
appropriately.</description>
  <encodedData
type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441 70706C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441 70706C696361
74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43
6172644170706C69636174696F6E53746172745365737 3696F6EA2038101FF305280094E616D
656444617461A10F830D4461746153657443726561 7465A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF305280094E616D656444617461A10F830D4461746153657444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F646966
79A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578
7465726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74
697479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469
666665726 56E7469616C4964656E74697479A10B850944494444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A2
62A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C70686145787465726E616C43657274A1028000820100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the data set list
```

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```
      contains the newly created DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463930313130354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
313035413130333830303130313031303030303C2F496E70757441504455 3E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010100</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>625</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
11416C70686145787465726E616C43657274820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
42657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A11416C
70686145787465726E616C43657274820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>627</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019EA182019AA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818201563C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F75747075744415044553E3746393031323538413134454130344331413035343334
383530343934453141304334393645373436353732364536313643343336353732373431313
303432363537343631343537383734363537323645363136433433363537323734314131303
443631364536373435373837343635373236453631364334333635373237343141313034
443631364536373435373837343635373236453631364334333635373237343141313136
433730363836313435373837343635373236453631364334333635373237343832303634313
530343935463446344239303030 3C2F4F7574075744150445 3E0A3C2F6E73323A5472616E73
6D6974526573706F6E73653E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>628</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>629</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>630</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393031323538413134
4541303443314133353433343835303439344531413043343936453734363537323645363136
4334333635373237343141313034323635373436313435373837343635373236453631364334
3336353732373431413130344436313645363734353738373436353732364536313643343336
3537323734314131313431364337303638363134353738373436353732364536313643343336
3537323734383230363431353034393546344634423930303C2F4F7574707574415044553E
0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
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  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
426574614578746572 6E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657 26E616C4365727482064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000020001 card application DID
     list. Ensure that the data set list contains the newly created
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657 26E616C4365727 41A104D616E6745787465726E616C436572741A
11416C706861457874657 26E616C4365727482064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000020001 card
application DataSet list. Ensure that the DataSet
     list contains the newly created DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>635</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463731303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>638</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
313035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>639</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
```

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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820137A1820133A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181F03C6E73323A5472616E736D697452657370F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445553E3746384637323235413131424130313931413035333232443
43435333331314130353332324434343533332314130393431363336333635373337333443
364636373832303634313530343935463446424393030303C2F4F7574075744150445553E0A
3C2F6E73323A5472616E736D697452657370F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>644</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>646</refId>
  <annexAId>37</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FEA181F38081F03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637323235413131424130
313931413035333232443434353333313141303533332244343435333332314130393431363633
3633363537333733344336463637383230363431353034393546344634423930303C2F4F75
74707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>647</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000020001 card application
     DataSet list. Ensure that the DataSet list contains the newly created
DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the 2-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A800101810532 2D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A33427732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304138303031303138313035333232443434
353333313030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
```

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```
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130313138313035333232443434353333313030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

        <SlotHandle>00</SlotHandle>


     <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>656</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105322D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>657</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>658</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>660</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172743617 2642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D536573736 96E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>664</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
2-DS1 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>665</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 2-DS1 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>666</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>667</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
```

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```
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463739303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>670</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>

        <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453312D44534931820641504 95F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453312D44534931820641504 95F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130304331413041333232443
43435333331324434343533343933313832303634313530343935463446344239303030 3C2F
4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413138413130454130
3043314130413332324434343533333132443434353333439333138323036343135303439354 6
```

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```
3446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453312D44534931820641504 95F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>680</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 2-DS1 DSI list. Ensure that the DSI list
     contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453312D4453493182064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>681</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the 2-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445332</encodedData>
</invAspect>
<invAspect>
  <refId>682</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>683</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874747703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303130374638463735343413130413830303130313831303533332324434
353333323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>684</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>686</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130313138313035333232443434353333332303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105322D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>689</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>691</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A737464A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F757470757441504 553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>696</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
2-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>697</refId>
```

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```
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 2-DS2 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>698</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>699</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E657482C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463739303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>700</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>701</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>702</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>703</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>704</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>705</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B9000</
OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130304331413041333232 44
343435333332324434343533343933313832303634313530343935463446344639303030 3C2F
```


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```
4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>709</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413138413130454130
3043314130413332324434343533333232443434353334393331383230363431353034393546
3446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453322D44534931820641504 95F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 2-DS2 DSI list. Ensure that the DSI list
     contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D44534931820641504 95F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

  <InputAPDU>00C200000000147F8F7510A10E800101810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>715</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031343746384637353130413130453830303130313831303934313633633
363537333733344336463637303030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>716</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>717</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>718</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384637
353130413130453830303130313831303934313633363336333635373337333443364636373030303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>719</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800101810941636365734C6F670000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>720</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800101810941636365734C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>721</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>722</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
```

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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>723</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D69745265737706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A2343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383330363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265737706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>724</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>725</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423939303303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>727</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the newly created DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>731</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA05801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637393035413130333830303130313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>733</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>734</refId>
```

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```
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>735</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C20000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>736</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>737</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B90
00</encodedData>
</invAspect>
<invAspect>
  <refId>738</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>739</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011BA1820117A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D22757A6E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455 3E3746384637413137413130444130304231413039343136333
3633363537333733443364636373832303634313530343935463446344639303030 3C2F4F75
74707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>740</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>741</refId>
```

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```
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413137413130444130
3042314130393431363336333633653733373334433646363738323036343135303439354634 46
3442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
     list contains the newly created DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>745</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A000000410000200001 card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>746</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C2000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>747</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846353930354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>748</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>751</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>752</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>753</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>754</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>755</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
```

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2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 53E3746384635413038383230363431353034393546344634423930
30303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>756</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>757</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>758</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746384635413038383230363431
353034393546344634423930303030 3C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>759</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>760</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the A00000041000020001 card
      application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>761</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the Alpha card application.
Transmit on the IFDProxy shall be invoked to
      transmit the CardApplicationDisconnect APDU to the Alpha card
application. After transmit has completed, disconnect
      shall be invoked on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>763</refId>
  <annexAId>45</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303030393746384635393035413130333830303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>767</refId>
```

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```
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>770</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>771</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D69745265737065F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265737065F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>772</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>773</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>774</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463541303838323036343 1
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>775</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>776</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>777</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
```

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```
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>778</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>779</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>781</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
```

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```
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>787</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>788</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application. Transmit
     on the IFDProxy shall be invoked to transmit the
CardApplicationDisconnect APDU to the Alpha card application. After
     transmit has completed, disconnect shall be invoked on the
IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>789</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>790</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>791</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465244
2D53657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E6E65
74821C436C69656E7441707053696465244432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73233D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E74657874486 6E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>792</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>793</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>794</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>795</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657370F6E73653E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>798</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>799</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>800</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E73652078696C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>802</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description>Close the TC from the client application host.</description>
      <encodedData
    type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D32821C436C69656E7441707053696465 2D54432D53657373696F6E4944
    2D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>803</refId>
      <annexAId>46</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Return of close the TC from the client application
    host.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>804</refId>
      <annexAId>46</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>terminate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
    This shall automatically invoke
         ReleaseContext on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>805</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData
    type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
    657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
    49442D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>806</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

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B.5 Data manipulation - card application path

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements the ENVELOPE APDU) as described in Annex A.1.5, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.5.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
     <invAspect>
       <refId>1</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>CALL</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
     </invAspect>
     <invAspect>
       <refId>2</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>RETURN</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData
     type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
     657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
     49442D31820641504 95F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>3</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>initialize</method>
       <invocationType>CALL</invocationType>
       <description>Initialise the SAL Proxy.</description>
       <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
     </invAspect>
     <invAspect>
       <refId>4</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Ensure the A00000041000010001 card application
exist. This shall automatically invoke Open
     on the TC layer and then EstablishContext on the IFDProxy as
connectivity to the smartcard host has not yet been
     established. Then it shall invoke connect on the IFDProxy. In turn
connect shall be invoked on the IFD layer on the
     client side. After connect has completed, transmit on the IFDProxy
shall be invoked to transmit the
     CardApplicationConnect APDU to the Alpha card application. If the
sessionIdentifier field in the ChannelHandle is
     null then the SAL Proxy shall create a new TC connection. If the
sessionIdentifier field is not null then the TC
     connection must exist at this point. In this case sessionIdentifier is
null. Ensure that the card application exists
     at the following location: Host: http://smartcard-host.net; IFD Name:
Blue IFD Reader SN2432A4; Slot: 1. The
     smartcard path shall be replaced when comparing the results to those
from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E6574831842C7565204946442052656164657220534E323433324134840101
8509A0000004100001000810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182012C3C
6E73323A4573746162 6C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A20202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A20202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E7441707053696465 2D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C6973684368F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

       <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370 6F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E74657874486 E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370 6F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
```

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```
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
74657874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContextResponse>

       <Result>IFD_OK</Result>

       <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

         <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861 6E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
```

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```
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>
```

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```
      <SlotHandle>00</SlotHandle>
    </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100001000 18101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C486C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6966633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030303530374638463537344341313441413034354131313423830313936383 7
343734373033413246324637333644363137323734363336313732363432443638364637333 7
343245364536353734383331383432364337353635323034393436343432303532363536313 6
343635373232303533344533323334333333323431333438343031303138353039413030303 0
303043130303030313030303138313031303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A737465A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244383836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000100018101000</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130303832303634 31
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130303832303634313530343935463446344423930303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
A00000041000010001 card application exist.
      This shall automatically invoke Open on the TC layer and then
EstablishContext on the IFDProxy as connectivity to the
      smartcard host has not yet been established. Then it shall invoke
connect on the IFDProxy. In turn connect shall be
      invoked on the IFD layer on the client side. After connect has
completed, transmit on the IFDProxy shall be invoked
      to transmit the CardApplicationConnect APDU to the Alpha card
application. If the sessionIdentifier field in the
      ChannelHandle is null then the SAL Proxy shall create a new TC
connection. If the sessionIdentifier field is not null
      then the TC connection must exist at this point. In this case
sessionIdentifier is null. Ensure that the card
      application exists at the following location: Host: http://smartcard-
host.net; IFD Name: Blue IFD Reader SN2432A4;
      Slot: 1. The smartcard path shall be replaced when comparing the
results to those from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the previous
connect.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
3930354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C20000000097F8F5905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73333A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A2020202020C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463541303838323036343135303439354634463442393 0
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>67</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6369656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
```

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```
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E733A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A20202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the previous connect.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Ensure the A00000041000010001 card application
exists at the following location: IFD Name:
     Blue IFD Reader SN2432A4; Slot: 2.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520496442052656164657220534E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A737464 3A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>82</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D3281819A3C6E7323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
```

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657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>

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```
      </ns2:Transmit>
    </encodedData>
  </invAspect>
  <invAspect>
    <refId>89</refId>
    <annexAId>4</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>write</method>
    <invocationType>CALL</invocationType>
    <description>Transmit the IFD XML message from the TC Proxy to the TC
  Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
    <encodedData
  type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E7441707053696465 2D
  54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E
  6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182013E3C
  6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
  6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
  646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
  323030303030303030353037463846353734434131344141303435413131423830313936383 7
  343734373033413246324637333644363137323734363333313732363432443638364637333 7
  343245364536353734383331383432364337353635323034393436343432303532363536313 6
  343635373232303533344533323334333333323431333438343031303138353039413030303 0
  303034313030303031303030313831303130303030303C2F496E707574415044553E0A3C2F
  6E73323A5472616E736D69743E</encodedData>
  </invAspect>
  <invAspect>
    <refId>90</refId>
    <annexAId>4</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>write</method>
    <invocationType>RETURN</invocationType>
    <description>Return of the write.</description>
    <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>91</refId>
    <annexAId>4</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>read</method>
    <invocationType>CALL</invocationType>
    <description>Wait for the call, from the TC Agent.</description>
    <encodedData
  type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
  657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
  49442D32</encodedData>
  </invAspect>
  <invAspect>
    <refId>92</refId>
    <annexAId>4</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>read</method>
    <invocationType>RETURN</invocationType>
    <description>The transmited IFD XML message from the TC Agent. The XML is
  the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303030 31
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100001000181010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332
413484018509A0000004100001000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646652D
54432D536573736F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D613323E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455 3E3746384635383044413130333830303130303832303634313
353034393546344634423939303303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463538304441313033383830
303130303832303634313530343935463446344423933030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
A00000041000010001 card application exists
     at the following location: IFD Name: Blue IFD Reader SN2432A4; Slot:
2.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the previous
connect.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044453E3030433230303030303030303030393746384635
393035413130333830303130303030303030 3C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E3746384635413038383230363431353034393546344634423930
```

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```
30303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
3530343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```


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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3184D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D3281 9687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E6563742086D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A323437323734746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323A3A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>
```

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```
      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the previous connect.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Ensure the A000000410000010001 card application
exists at the following location: IFD Name:
     Red IFD Reader SNXRDL4; Slot: 1.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265164657220534E323433324134840101
8509A000000410000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

       <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>6</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>140</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>144</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303035303746384635373443413134414130343541313142383031393638373
43734373033413246324637333644363137323734363336313732363432443638364637333
34324536453633373438333138343236433735363532303439343634343230353236353631363
34363537323230353334453332333433333332343133343834303130313835303941303030303
30303431303030303130303031383130313030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>6</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134413034354131314238303139363837343734373033413246324637333
364436313732373436333631373236343244363836463733373432453645363535373438333138
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303030 31
383130313030303030303C2F496E70757 4415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100001000181010000 00</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332
41348401018509A0000004100001000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
```

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```
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130303832303634 31
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E73652076D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
373237 3A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
A00000041000010001 card application exists
     at the following location: IFD Name: Red IFD Reader SNXRDL4; Slot:
1.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the previous
connect.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645364964652D5443
2D53657373696F6E49442D328100821C536D617274636172645364964652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
```

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```
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746384635413038383230363431
353034393546344634423930303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696 4652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
```

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```
  <refId>176</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A20202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E6563745265706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D696563323432373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653F</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the previous connect.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>193</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657370F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>197</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2752726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61233E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>201</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
This shall automatically invoke
     ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5408820641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy. This shall automatically invoke
EstablishContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL Proxy.
This shall automatically invoke
     EstablishContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5208820641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationPath</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve all slots that contain an ISO24727 smartcard that
contain a card application named
     A00000041000010001. First invoke IFD.EstablishContext as it has not yet
been invoked. Then invoke IFD.GetStatus to
     return all available slots that contain a smartcard. A
SAL.CardApplicationConnect action shall be invoked for each
     IFD slot that contains a smartcard. Each successful
SAL.CardApplicationConnect action shall also have a corresponding
```

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```
      SAL.CardApplicationDisconnect action.</description>
  <encodedData
type="xs:hexBinary">7F8F552CA12AA028A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748509A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContext>

       <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
      </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A2020202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A2020202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A2020202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA1820130808201 2C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A2020202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A2020202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
```

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```
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370 6F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
```

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```
6C653E0A3C2F6E73323A45737461626C697368436F6E74657874526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
74657874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D696563323432373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
```

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```
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>getStatus</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:GetStatus>

       <ContextHandle>00</ContextHandle>
      </ns2:GetStatus>
  </encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D6A181D3A057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D3281196874747033A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281783C6E73323A
476574537461747573207 86D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D69
65633A32343732373A746563683A736368656D61223E0A202020203C436F6E7465787448616E
646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A476574537461747573
3E</encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>224</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8184A17A80783C6E73323A476574537461747573207 86D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A3C2F6E73323A476574537461747573E820641504 95F4F4B</encodedD
ata>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>getStatus</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:GetStatus>

      <ContextHandle>00</ContextHandle>
     </ns2:GetStatus>
  </encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>getStatus</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:GetStatusResponse>

      <Result>IFD_OK</Result>

      <IFDStatus>

            <IFDName>Blue IFD Reader SN2432A4</IFDName>

            <SlotStatus>

               <Index>0</Index>

               <CardAvailable>false</CardAvailable>
            </SlotStatus>

            <SlotStatus>

               <Index>1</Index>
```

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```
                <CardAvailable>true</CardAvailable>
            </SlotStatus>

            <SlotStatus>

                <Index>2</Index>

                <CardAvailable>true</CardAvailable>
            </SlotStatus>
        </IFDStatus>

        <IFDStatus>

            <IFDName>Red IFD Reader SNXRDL4</IFDName>

            <SlotStatus>

                <Index>0</Index>

                <CardAvailable>false</CardAvailable>
            </SlotStatus>

            <SlotStatus>

                <Index>1</Index>

                <CardAvailable>true</CardAvailable>
            </SlotStatus>

            <SlotStatus>

                <Index>2</Index>

                <CardAvailable>false</CardAvailable>
            </SlotStatus>
        </IFDStatus>
      </ns2:GetStatusResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820441A182043DA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818203F93C6E73323A476574537461747573526573706F6E736520786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A
202020203C4946445374617475733E0A2020202020202020203C4946444E616D653E426C756520
4946442052656164657220534E3234333241343C2F4946444E616D653E0A2020202020202020
3C536C6F745374617475733E0A2020202020202020202020203C496E6465783E303C2F496E64
65783E0A2020202020202020202020203C43617264417661696C61626C653E66616C73653C2F
```

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```
4361726441766169 6C61626C653E0A2020202020202020203C2F536C6F745374617475733E0A20
2020202020202020203C536C6F745374617475733E0A2020202020202020202020203C496E646578
3E313C2F496E6465783E0A2020202020202020202020203C4361726441766169 6C61626C653E
747275653C2F4361726441766169 6C61626C653E0A2020202020202020203C2F536C6F74537461
7475733E0A2020202020202020203C536C6F745374617475733E0A2020202020202020202020202020
3C496E6465783E323C2F496E6465783E0A2020202020202020202020203C4361726441766169
6C61626C653E747275653C2F4361726441766169 6C61626C653E0A2020202020202020203C2F53
6C6F745374617475733E0A202020203C2F4946445374617475733E0A202020203C4946445374
617475733E0A2020202020202020203C4946444E616D653E526564204946442052656164657220
534E5852444C343C2F4946444E616D653E0A2020202020202020203C536C6F745374617475733E
0A2020202020202020202020202020203C496E6465783E303C2F496E6465783E0A2020202020202020
202020203C4361726441766169 6C61626C653E66616C73653C2F4361726441766169 6C61626C
653E0A2020202020202020203C2F536C6F745374617475733E0A2020202020202020203C536C6F74
5374617475733E0A2020202020202020202020202020203C496E6465783E313C2F496E6465783E0A20
2020202020202020202020202020203C4361726441766169 6C61626C653E747275653C2F436172644176
61696C61626C653E0A2020202020202020203C2F536C6F7453746174757533E0A20202020202020
203C536C6F745374617475733E0A2020202020202020202020202020203C496E6465783E323C2F496E
6465783E0A2020202020202020202020202020203C4361726441766169 6C61626C653E66616C73653C
2F4361726441766169 6C61626C653E0A2020202020202020203C2F536C6F745374617475733E0A
202020203C2F4946445374617475733E0A3C2F6E73323A4765745374617475735265737065F6E
73653E</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820409A18203FD808203F93C6E73323A476574537461747573
526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965
```

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633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F
4F4B3C2F526573756C743E0A202020203C4946445374617475733E0A2020202020202020203C49
46444E616D653E426C7565204946442052656164657220534E3234333241343C2F4946444E61
6D653E0A2020202020202020203C536C6F745374617475733E0A2020202020202020202020203C
496E6465783E303C2F496E6465783E0A2020202020202020202020203C43617264417661696C
61626C653E66616C73653C2F43617264417661696C61626C653E0A2020202020202020203C2F53
6C6F745374617475733E0A2020202020202020203C536C6F745374617475733E0A202020202020
2020202020203C496E6465783E313C2F496E6465783E0A2020202020202020202020203C4361
7264417661696C61626C653E747275653C2F43617264417661696C61626C653E0A2020202020
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202020202020202020202020203C496E6465783E323C2F496E6465783E0A2020202020202020
2020203C43617264417661696C61626C653E747275653C2F43617264417661696C61626C653E
0A2020202020202020203C2F536C6F745374617475733E0A202020203C2F49464445374617475733
3E0A202020203C4946445374617475733E0A2020202020202020203C4946444E616D653E526564
20494644205265616465722053 4E5852444C343C2F4946444E616D653E0A2020202020202020
3C536C6F745374617475733E0A2020202020202020202020203C496E6465783E303C2F496E64
65783E0A2020202020202020202020203C43617264417661696C61626C653E66616C73653C2F
43617264417661696C61626C653E0A2020202020202020203C2F536C6F745374617475733E0A20
202020202020203C536C6F745374617475733E0A2020202020202020202020203C496E646578
3E313C2F496E6465783E0A2020202020202020202020203C43617264417661696C61626C653E
747275653C2F43617264417661696C61626C653E0A2020202020202020203C2F536C6F74537461
7475733E0A2020202020202020203C536C6F745374617475733E0A2020202020202020202020
3C496E6465783E323C2F496E6465783E0A2020202020202020202020203C4361726441766169
6C61626C653E66616C73653C2F43617264417661696C61626C653E0A2020202020202020203C2F
536C6F745374617475733E0A202020203C2F4946445374617475733E0A3C2F6E73323A476574
5374617475735265737 06F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>getStatus</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:GetStatusResponse>

      <Result>IFD_OK</Result>

      <IFDStatus>

            <IFDName>Blue IFD Reader SN2432A4</IFDName>

            <SlotStatus>

                <Index>0</Index>

                <CardAvailable>false</CardAvailable>
            </SlotStatus>

            <SlotStatus>

                <Index>1</Index>

                <CardAvailable>true</CardAvailable>
            </SlotStatus>

            <SlotStatus>

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```
                <Index>2</Index>

                <CardAvailable>true</CardAvailable>
            </SlotStatus>
        </IFDStatus>

        <IFDStatus>

            <IFDName>Red IFD Reader SNXRDL4</IFDName>

            <SlotStatus>

                <Index>0</Index>

                <CardAvailable>false</CardAvailable>
            </SlotStatus>

            <SlotStatus>

                <Index>1</Index>

                <CardAvailable>true</CardAvailable>
            </SlotStatus>

            <SlotStatus>

                <Index>2</Index>

                <CardAvailable>false</CardAvailable>
            </SlotStatus>
        </IFDStatus>
      </ns2:GetStatusResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053E323433324134840101
8509A0000004100001000181010O</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>
```

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```
        <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

        <Slot>1</Slot>

        <Exclusive>false</Exclusive>
       </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D61727436172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D612231E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C7565204946442052656164657220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>11</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000005078F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E657748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030353037463846353734434131344141303435413131314238303139363837
343734373033413246324637333644363137323734363336313732363432443638364637333 7
343245364536353734383331383432364337353635323034393436343432303532363536313 6
343635373232303533344533323334333333323431333438343031303138353039413030303 0
```

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```
303034313030303031303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463273 3
364436313732374363336313732363432443638364637333734324536453635373438333138
343236433735363532303439343634343230353236353631363436353732323035333445332
333433333323431333343834303130313835303941303030303030343130303030313030303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053E32343332413
48401018509A000000410000100018101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C756520494644205265616465722053E32343332
41348401018509A000000410000100018101000</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>254</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130303832303634 31
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
```

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```
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130303832303634313530343935463446344239303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E7075744415044553E30304332
303030303030303030303937463846353930354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
6573736F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
```

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```
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A10380010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646
52D54432D53657373696F6E49442D328100821C536D617274636172645369646
52D54432D536573736965F6E49442D328181B63C6E73323A5472616E736D6974
526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A
69736F2D6965633A32343732373A746563683A7363686568656D61223E0A2020
20203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020202030
3C4F7574707574415044553E3746384635413038383230363431353034393546
34463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465
2D54432D53657373696F6E49442D328119687474703A2F2F736D617274636172
642D686F73742E6E6574821C436C69656E7441707053696465
2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
```

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```
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
```

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```
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E3323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A4469736 36F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840102
8509A00000041000010001810100</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>2</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E323C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265164657220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E323C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

         <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>2</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
```

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```
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D6172746361726453696465 2D5443
2D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E6563745265737 06F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

       <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401028509A0000004100001000181010000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030353037463846353734434131344141303435413131423830313936383 7
343734373033413246324637333644363137323734363336313732363432443683646373337
343245364536353734383331383432364337353635323034393436343432303531236353631 6
343635373232303533344533323334333333323431333438343031303238353039413030303 0
303043130303030313030303138313031303030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445332
333433333332343133343834303130323835303941303030303030343130303030313030303 1
```

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```
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B80196874747703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401028509A0000004100001000181010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
413484010285094A0000004100001000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130303832303634313
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>313</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E374638463538304443130333830
303130303832303634313530343935463446344239303030 3C2F4F7574075744150445553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA1038001008 2064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008 2064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>317</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A323437323734746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234373233A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C20000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463541303838323036343135303439354634463442393
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>328</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E820641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
```

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```
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D227572 6E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818A181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
```

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```
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData
type="xs:hexBinary">7F8F574AA148A043A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E6574831652656420494644205265616465722053 4E5852444C348401018509
A000000410000100018101 00</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Red IFD Reader SNXRDL4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820136A1820132A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D63C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861 6E646C653E0A202020203C4946444E616D653E52
6564204946442052656164657220534E5852444C343C2F4946444E616D653E0A202020203C53
6C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F457863
6C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>347</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E52656420494644205265616465722053
4E5852444C343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A2020
20203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E73323A43
6F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Red IFD Reader SNXRDL4</IFDName>

      <Slot>1</Slot>
```

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```
      <Exclusive>false</Exclusive>
    </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
    previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
    <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
    </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
    marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646
52D54432D53657373696F6E49442D32801821C536D617274636172645369646
52D54432D53657373696F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617746361726 42D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000004E7F8F574AA148A043A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E6574831652656420494644205265616465722053 4E5852444C34840
1018509A0000004100001000181010000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019BA1820197A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182013A3C
6E73323A5472616E736D697420786D6C6E733A6E73323D22757261A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030344537463846353734414131343841303433413131314238303139363837
34373437303341324632463733364436313732373436333631373236343244363836463733 37
34324536453635373438333136353236353634323034393436343432303532363536313634 36
35373232303533334453538353234343443333438343031303138353039413030303030303431
30303030313030303138313031303030303030 3C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014AA182013E8082013A3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303030303445374
6
38463537344141313438413034334131314223830313936383734373437303341324632463733
364436313732373436333631373236343244363836463733373432453645363537343833313
6
353236353634323034393436343432303532363536313634363537323230353334453538353
2
343434433334383430313031383530394130303030303034313030303031303030313831303
1
3030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C20000000004E7F8F574AA148A043A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E657483165265642049464420526561646572205 34E5852444C34840
1018509A00000041000010001810100000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004E7F8F574AA148A043A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E657483165265642049464420526561646572205 34E5852444C34
8401018509A00000041000010001810100000</encodedData>
</invAspect>
<invAspect>
  <refId>364</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646652D
54432D536573736F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4E7574707574415044553E374638463538304441313033383030313030383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>368</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D22757269733A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130303832303634313530343935463446344239303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D697452657373706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504455 3E303043323030303030303030303393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
```

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```
30303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423934303303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

        <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A18CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D3281196874774703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>
```


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```
      <Result>IFD_OK</Result>
    </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationPath</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve all slots that
contain an ISO24727 smartcard that contain a
     card application named A000000410000100001. First invoke
IFD.EstablishContext as it has not yet been invoked. Then
     invoke IFD.GetStatus to return all available slots that contain a
smartcard. A SAL.CardApplicationConnect action
     shall be invoked for each IFD slot that contains a smartcard. Each
successful SAL.CardApplicationConnect action shall
     also have a corresponding SAL.CardApplicationDisconnect
action.</description>
  <encodedData
type="xs:hexBinary">7F8F568188A17EA07C3026831652656420494644205265616465722
534E5852444C3484010185090A000000410000100013028831842 6C7565204946442052656164
657220534E3234333241348401018509A000000410000100013028831842 6C75652049464420
52656164657220534E3234333241348401028509A000000410000100018206415049 5F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>
```

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```
      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
```

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```
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370 6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
```

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```
      657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
      2D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>415</refId>
        <annexAId>17</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>close</method>
        <invocationType>RETURN</invocationType>
        <description>Return of close the TC from the client application
      host.</description>
        <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>416</refId>
        <annexAId>17</annexAId>
        <layer>SAL</layer>
        <layerName>SAL Proxy</layerName>
        <method>terminate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
      This shall automatically invoke
            ReleaseContext on the IFDProxy.</description>
        <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>417</refId>
        <annexAId>0</annexAId>
        <layer>TC</layer>
        <layerName>TC Agent</layerName>
        <method>close</method>
        <invocationType>CALL</invocationType>
        <description>Close the trusted channel on the smartcard host
      side.</description>
        <encodedData
      type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
      657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
      49442D31</encodedData>
      </invAspect>
      <invAspect>
        <refId>418</refId>
        <annexAId>0</annexAId>
        <layer>TC</layer>
        <layerName>TC Agent</layerName>
        <method>close</method>
        <invocationType>RETURN</invocationType>
        <description>Close the trusted channel on the smartcard host
      side.</description>
        <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
      </invAspect>
</invAspectList>
```

B.6 Data manipulation – general

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements the ENVELOPE APDU) as described in Annex A.1.6, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual

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data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.6.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
     <invAspect>
       <refId>1</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>CALL</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
     </invAspect>
     <invAspect>
       <refId>2</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>RETURN</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData
     type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646652D54432D53
     657373696F6E49442D318100821C536D617274636172645369646652D54432D53657373696F6E
     49442D3182064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>3</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>initialize</method>
       <invocationType>CALL</invocationType>
       <description>Initialise the SAL Proxy.</description>
       <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
     </invAspect>
     <invAspect>
       <refId>4</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>initialize</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Initialise the SAL
     Proxy.</description>
       <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the A00000041000010001 card
application. This shall automatically invoke Open
     on the TC layer and then EstablishContext on the IFDProxy as
connectivity to the smartcard host has not yet been
     established. Then it shall invoke connect on the IFDProxy. In turn
connect shall be invoked on the IFD layer on the
     client side. After connect has completed, transmit on the IFDProxy
shall be invoked to transmit the
     CardApplicationConnect APDU to the Alpha card application. If the
sessionIdentifier field in the ChannelHandle is
     null then the SAL Proxy shall create a new TC connection. If the
sessionIdentifier field is not null then the TC
     connection must exist at this point. In this case sessionIdentifier is
null. Ensure that the card application exists
     at the following location: Host: http://smartcard-host.net; IFD Name:
Blue IFD Reader SN2432A4; Slot: 1. The
     smartcard path shall be replaced when comparing the results to those
from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053E323433324134840101
8509A000000410000100018101 00</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
```

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```
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C6973684366E6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D696563323432343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A20202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A20202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A2020202020C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A2020202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>
```

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```
        <Result>IFD_OK</Result>

        <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E746578745265737 06F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E746578745265737 06F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
74657874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContextResponse>

       <Result>IFD_OK</Result>

       <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

         <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
```

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```
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A73636865 6D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B80196874747703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100001000 18101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A323437323A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030353037463846353734434131344141303435413131423830313936383 7
343734373038413246324637333644363137323734363336313732363432443638364637333 7
343245364536353734383331383432364337353635323034393436343432303532363536313 6
343635373232303533344533323334333333323431333438343031303138353039413030303 0
303043130303030313030303138313031303030303030 3C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463733
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353031363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303030 31
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100001000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646452D
54432D53657373696F6E49442D328100821C536D617274636172645369646452D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
```

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```
20203C4F7574707574415044553E3746384635383044413130333830303130303832303634313
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130303832303634313530343935463446344639303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the A00000041000010001 card application.
     This shall automatically invoke Open on the TC layer and then
EstablishContext on the IFDProxy as connectivity to the
     smartcard host has not yet been established. Then it shall invoke
connect on the IFDProxy. In turn connect shall be
     invoked on the IFD layer on the client side. After connect has
completed, transmit on the IFDProxy shall be invoked
     to transmit the CardApplicationConnect APDU to the Alpha card
application. If the sessionIdentifier field in the
     ChannelHandle is null then the SAL Proxy shall create a new TC
connection. If the sessionIdentifier field is not null
     then the TC connection must exist at this point. In this case
sessionIdentifier is null. Ensure that the card
     application exists at the following location: Host: http://smartcard-
host.net; IFD Name: Blue IFD Reader SN2432A4;
     Slot: 1. The smartcard path shall be replaced when comparing the
results to those from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
     with management permissions to view all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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```
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61323E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303144374639303142313941313137383030313030413130323830303038
3043343936453734363537323645363136433433363537323734383330303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313030413130323830303038323043343936453734363537323645
3136433433363537323734383330303030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800100A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E374639303143304341313032383030303832303634313530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

     <Result>IFD_OK</Result>

     <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the InternalCert DID. This, combined with
     MangExternalCert, shall provide us with management permissions to view
all of the smartcard.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the MangExternalCert DID. This
shall provide us with management permissions
     to view all of the smart card.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000000217F901B1DA11B800100A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323137463930314231444131314238303031303041313032383030303832
3130344436313645363734353738373436353732364536313643343336353732373438333030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
```

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```
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D227572E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032313746393031
42314441313142383030313030413130323830303038323130344436313645363734353837
343635373236453631364334333635373237343833303030303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000217F901B1DA11B800100A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800100A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E37463930314330434131303238303030383232303634313530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32819687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E37463930314330434131303238 30
3030383230363431353034393546344634423934 2393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
```

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```
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the MangExternalCert DID. This shall
     provide us with management permissions to view all of the smart
card.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800100A102800082054348504 94E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000167F901B12A110800100A10280008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D227526E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D612233E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313637463930314231324131313038303031303041313032383030303832
3035343334383530343934453833303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031363746393031
42313241313130383030313030413130323830303038323035343334383530343934454383330
30303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800100A10280008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800100A10280008205434850494E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A20202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423933030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the CHPIN DID. This shall provide us with
     permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>6</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application access rules. Ensure that the ACL is as
      expected.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010081104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010081104341524 42D4150504C494341544
94F4EA20B8209A00000041000010001000 00</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323837463930314432344131322383030313030383131303433343135 32
343432443431353035303443343934333431353434393446344541323042383230394130303 0
3030303431303030303130303031303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504453E303043323030303030303030323837463930 31
443234413132323830303130303038313130343334313532343432443431353035303443343934
333431353434393446344541323042383230394130303030303034313030303031303030313 0
3030303C2F496E70757441504453E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010081104341524 2D4150504C494341544
94F4EA20B8209A000000410000100010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>102</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010081104341524420D4150504C494341
54494F4EA20B8209A00000041000010001000</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D4578656375746541637469 6F6EA203820100302B800A436F6E6E656374696F6E
A11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172
644170706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A20381
01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
6100</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B
811943617264417070C69636174696F6E456E6453657373696F6EA2038101FF302F800F4361
726441707 06C69636174696F6EA11782154361726441707 06C69636174696F6E437265617465
A2038101FF302F800F436172644170706C69636174696F6EA11782154361726441707 06C6963
6174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6973
6100</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">74A2038201003034800F436172644170706C69636174696F6EA11C82
1A436172644170706C69636174696F6E536572766963654C6F6164A2038201003036800F4361
726441707 06C69636174696F6EA11E821C436172644170706C69636174696F6E536572766963
65437265617465A2038201003036800F436172644170706C69636174696F6EA11E821C436172
644170706C69636174696F6E536572766963644656C657465A2038201003038800F43617264
4170706C69636174696F6EA120821E436172644170706C69636174696F6E5365727669636544
657363726965A20382010030528009 4E616D656444617461A10F830D446174615365744372
6100</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
```


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```
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">65617465A234A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FF305280094E616D65
6444617461A10F830D4461746153657444656C657465A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF3059801444696666666572656E7469616C4964656E74697479A10B85094449
6100</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">44437265617465A234A432A015800C496E7465726E616C43657274A1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3059801444
6966666572656E7469616C4964656E74697479A10B8509444944444656C657465A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF30819980094E616D656444617461A10D830B446174615365744C6973
74A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800543485049
4EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A80
6100</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">11416C70686145787465726E616C43657274A10280008201008A01980
1042657461457874657265726E616C43657274A10280008201008206415049 5F4F4B9000</encode
dData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820536A182052AA0820526301F800D417574686F72697A6174696F6E
A109860741434C4C69737 4A2038101FF3026801444696666657265 6E7469616C4964656E7469
7479A1098507444944 4C697374A2038101FF3027800F436172644170706C69636174696F6EA1
0F820D4578656375746 5416374696F6EA203820100302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6E
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  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820B5EA1820B5AA03E801C536D617274636172645369646 52D
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73696F6E49442D3281820B163C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A2020202 03C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415 044553E3746393031453832303533364131383230353241413038
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  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
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</invAspect>
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  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820B26A1820B1A80820B163C6E73323A5472616E736D697452
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  <annexAId>6</annexAId>
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  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820536A182052AA0820526301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
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6145787465726E616C43657274A10280008201 20100A019801042657461457 87465726E616C4365
7274A10280008201008206415049 5F4F4B9000</OutputAPDU>
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  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application access
      rules. Ensure that the ACL is as expected.</description>
  <encodedData
type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
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6E537461727453657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA1
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496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E7469
7479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3059801444696 6
666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF30819980094E616D656444617461A10D830B4461746153657 44C697374A2
7DA47BA015800C496E7465726E616C43657274A10280008201FFA56A300E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657265726E616C43657274A1028000820100A01980104265746145787465726E61
6C43657274A10280008201008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application DID list. Ensure that the DID list
     contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>7</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303030393746393031313130354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
313035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
```

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```
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A104265746145787465726E616C436572741A104D616E6745787465726E616C436572741A
11416C7068614578746 5726E616C4365727482064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
426574614578746572 6E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657 26E616C4365727482064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019EA182019AA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818201563C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031323538413134454130344331413035343334
383530343934453141304334393645373436353732364536313643343336353732373431 31
303432363537343631343537383734363537323645363136433433363537323743141313034
443631364536373435373837343635373236453631364334333635373237343141313034
433730363836313435373837343635373236453631364334333635373237343823036343135
303439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E73
6D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617746361726 42D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445 53E3746393031323538413134
4541303443314130353433343835303439344531413043343936453734363537323645363136
4334333635373237343141313034323635373436313435373837343635373236453631364334
3336353732373431413130344436313645363734353738373436353732364536313643343336
3537323734314131313431364337303638363134353738373436353732364536313643343336
3537323734383230363431353034393546344634423930303C2F4F7574075744150445 53E
0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
4265746145787465726E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657 26E616C4365727482064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000010001 card application DID
     list. Ensure that the DID list contains the expected
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
```

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```
741A1042657461457874657261E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657261E616C43657274820641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application DataSet list. Ensure that the DataSet
     list contains the two data sets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846373130354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
313035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820145A1820141A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
```

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```
73696F6E49442D328181FE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323243413132324130323031413035333132 44
34343533333131413035333132443434353333323141303533331324434345333333314130 39
34313633363336353733373334433646363738323036343135303439354634463442393030 30
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82010DA18201018081FE3C6E73323A5472616E736D69745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A202020203C4F7574707574415044553E3746384637323241413132 32
41303230314130353331324434343453333331314130353331324434343533333323141303533 31
32443434353333333314130393431363336333635373337333443364636373832303634313530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000010001 card application
     DataSet list. Ensure that the DataSet list contains the two data
sets.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504455E30304332
303030303030303031303746384637353043413130413830303130303831303533331324434
353333313030303C2F496E70757441504455E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
```

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```
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303831303533313244343435333331303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463736303838323036343135303439354634463442393030
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>166</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463736303838383230363431
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
1-DS1 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 1-DS1 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>170</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F74486E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637393035413130333830303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303030303C2F496E70757441504453E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130303433141304133313244
34343533333132443434353334393331383230363431353034393546344634423930303 03C2F
4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455453E3746384637413138413130454130
3043314130413331324434343535333331324434343533343933313832303634313530343934
3446344239303030 3C2F4F757470757441504455453E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>184</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS1 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
```

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```
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304138303031303038313035333132443434
353333323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303831303533313244343435333332303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A800100810531 2D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463736303838323036343135303439354634644634239930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>199</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
1-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 1-DS2 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030303937463846373930354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
65737369F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
```

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```
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
44534932820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820135A1820131A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181EE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C52657756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413234413131414130313831413041333132443
43435333332324434343533334333311314130413331324434343533333232443434353333439
33323832303634313530343935463446344239303030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>214</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E3746384637413234413131414130
313831413041333132443434353333323244343435333439333131413041333324434343533
333232443434353334393332383230363431353034393546344634423930303C2F4F757470
7574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS2 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
44534932820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>13</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS3 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445333</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453330000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E657482C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303130374638463735304341313041383030313030383130353331324434
353333333030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>221</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616564 6C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E303043323030303030303030303031303746384637
353043413130413830303130303831303533313244343435333333303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453330000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E3746384637363038383230363431353034393546344634423930
```


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```
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
3530343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
1-DS3 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 1-DS3 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
```

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```
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637393035413130333830303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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```
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D44534933820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D445349
321A0A312D4453332D44534933820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>243</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818201063C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746384637413330413132364130323431413041333132
443434353333333244343435333439333131413041333132443434353333333244343435333 4
393332314130413331324434343533333332443434353334393333383230363431353034393 5
463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452
6573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820116A182010A808201063C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
```

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```
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445 53E3746384637413330413132
364130323431413041333132443434353333332443434353334393331314130413331324434
343533333332443434353334393332314130413331324434343533333332443434343533343933
333832303634313530343935463446344239303030 3C2F4F7574075744150445 53E0A3C2F6E
73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D445349
321A0A312D4453332D4453493382064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS3 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D4453493382064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800100810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031343746384637353130413130453830303130303831303934313633363
3635373337333443364636373030303303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>254</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384637
353130413130453830303130303831303934313633363336353733373334343364636373030303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000147F8F7510A10E800100810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800100810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>15</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D536573736963E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61233E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>261</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the expected DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637393035413130333830303130303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A2020202036536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A0941636365737 34C6F6782064150495F4F4B90
00</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011BA1820117A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
```

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```
73696F6E49442D328181D43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413137413130444130304231413039343136333
3633363537333733344336463637383230363431353034393546346346342393030303C2F4F75
7470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413137413130444130
3042314130393431363336333633653733373334433646363738323036343135303439354634
3442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
      list contains the expected DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: The following set of actions shall test the
A00000041000020001 card application
      pre-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E6574818426C756520494644205265616465722053 4E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303035303746384635373443413134414130343541313142383031393638373
3437343730334132463246373336443631373237343633363137323634324436383646373337
3432453645363537343833313834323643373535383532303439343634343230353236353631363
3436353732323035333445333233343333333234313334383430313031383530394130303030
3030343130303030303230303031383130313030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246333
364436313732373436333631373236343244363836463733373432453645363537343833313
343236433735363532303439343634343230353236353631363436353732323035333445333
333433333332343133334383430313031383530394130303030303034313030303032303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000200018101000000</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130313832303634 31
3530343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>293</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D697452657370F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: The
following set of actions shall test the
      A00000041000020001 card application pre-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
      with management permissions to view all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303031443746393031423139413131373830303130313141313032383030303832
```

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```
3043343936453734363537323645363136433433363537323734383330303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313031413130323830303038323043343936453734363537323645 36
313643343336373732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800101A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E37463930314330434131303238303030383230363431353O
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415O495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E37463930314330434131303238 30
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>311</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the InternalCert DID. This, combined with
     MangExternalCert, shall provide us with management permissions to view
all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the MangExternalCert DID. This
shall provide us with management permissions
     to view all of the smart card, except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D227572E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323137463930314231444131314538303031303141313032383030303832
3130344436313645363734353738373436353732364536313643343336353732373438333030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032313746393031
42314441313142383030313031413130323830303038323130344436313645363734353738373
34363537323645363136433433336353732373438333030303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800101A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A2020202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E374639303143304341313032383030303832303634313530
343935463446344439303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
69745265737065E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A3374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303033C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

     <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the MangExternalCert DID. This shall
     provide us with management permissions to view all of the smart card,
except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800101A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800101A10280008205434850494E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303136374639303142313241313130383030313031413130323830303038
3035343334383530343934453833303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>20</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E7075744415044553E3030433230303030303030303031363746393031
42313241313130383030303031413130323830303038323035343334383530343934454383330
30303030303C2F496E7075744415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800101A10280008205434850494E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800101A1028000820543485049 4E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415 0495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA10280008206415 0495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the CHPIN DID. This shall provide us with
      permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application access rules. Ensure that the ACL
      contains the expected access rules.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000020001</encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A00000041000020001 0000</InputAPDU>
      </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757415044553E30304332
3030303030303030303238374639303144323441313232383030313031383131303433343135
3234324434313530353034433439343334313534343934463445413230423832303941303030
3030303431303030303032303030313030303C2F496E70757415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
```

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```
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
443234413132323830303130313138313130343334313532343432443431353035303443343934
333431353434393446344541323042383230394130303030303034313030303030323030303130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A00000041000020001 0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010181104341524 42D4150504C494341
54494F4EA20B8209A000000410000200 0100</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF30268014446966666572656E7469616C496465
6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
```

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706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
6100</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E65
6374696F6EA11D811B4361726441707 06C69636174696F6E537461727453657373696F6EA203
8101FF305280094E616D656444617461A10F830D4461746153657443726561746 5A234A432A0
15800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C
43657274A10280008201FF305280094E616D656444617461A10F830D4461746153657444656C
657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67
45787465726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B
6100</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">860941434C4D6F64696679A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
59801444696666657265 6E7469616C4964656E74697479A10B85094449444437265617465A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B850944494444656C657465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF307E80094E616D6564
6100</encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">44617461A10D830B446174615365744C697374A262A460A015800C49
6E7465726E616C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465
726E616C43657274A1028000820100820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820379A182036DA0820369301F800D417574686F72697A6174696F6E
```

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A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
7479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D656444
617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3052
80094E616D656444617461A10F830D4461746153657444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469666665
72656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF307E80094E616D656444617461A10D830B4461746153657 44C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A10280008201008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F318207E4A18207E0A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328182079C3C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E7323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
20202020 4F7574075744150445 53E3746393031453832303337394131383230333644413038
323033363933303146383030443431373537343638364637323639374136313734363964636
454131303938363037343134333443344336393733373441323033383130314646333032363 8
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303242383030413433364636453645363536333734363936463645413131383831313634333 6
313732363434313730373036433639363336313734363936463645343336463645364536536
333734413230333831303146463330324438303046343336313732363434313730373036433 6
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393633631373436393646364534433639373337344132303338313031464633303245383030
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313730373036433639363336313734363936463645343436393733363336463645364536536
333734413230333831303146463330324538303041343336463645364536353633373436393 6
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303041343336463645364536353633373436393646364541313144383131423433363137323 6
343431373037303643363936333631373436393646364535333734363137323734353336353 7
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313030383230363431353034393546344634423930303033C2F4F757470757441504455 3E0A3C
2F6E73323A5472616E736D69745265737 06F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>364</refId>
  <annexAId>21</annexAId>
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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8207ACA18207A08082079C3C6E73323A5472616E736D697452
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3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F757470757441504455 3E37463930314538323033 7
3941313832303336444130383230333639333031463830304434313735373436383646373236
3937413631373436393646364541313039383630373431343334433443343639373337344132 3
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3336353732373441313032383030303832303146464135343741303045383030353433343835
3034393445413130323830303030383230314646413031393830313034443631364536373435 37
3837343635373236453631364334333635373237344131303238303030383230314646413031
4138303131343136433730363836313435373837343635373236453631364334333635373237
3441313032383030303832303130303832303634313530343935463446344239303030 3C2F4F
```

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```
75747075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820379A182036DA0820369301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
7479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D656444
617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3052
80094E616D656444617461A10F830D4461746153657444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B85094449444372656174 65A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469666665
72656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A10280008201008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application access
     rules. Ensure that the ACL contains the expected access
rules.</description>
  <encodedData
type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
```

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```
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43
6172644170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D
656444617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF305280094E616D656444617461A10F830D4461746153657444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F646966
79A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578
7465726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74
697479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469
66666572656E7469616C4964656E74697479A10B85094449444465 6C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF307E80094E616D656444617461A10D830B4461746153657 44C697374A2
62A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657265 6E616C43657274A10280008201008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the data set list
      contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
```


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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030303937463930313130354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D3281008201C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
313035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>22</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C2000097F901105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A104265746145787465726E616C436572741A104D616E6745787465726E616C436572741A
11416C70686145787465726E616C4365727482064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
426574614578746572 6E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657 26E616C436572748206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019EA182019AA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818201563C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6966633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E374639303132353841313445413034433141303535343334
383530343934453141304334393645373436353732364536313643343336353732373431313
303432363537343631343537383734363537323645363136433433363537323734314131303
443631364536373435373837343635373236453631364334333635373237343141313034
443631364536373435373837343635373236453631364334333635373237343141313134313136
433730363836313435373837343635373236453631364334333635373237343823036343135
303439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E73
6D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
```

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```
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445 53E37463930313235384131 34
45413034433141303534333438353034393445314130433439364537343635373236453631 36
43343336353732373431413130343236353734363134353738373436353732364536313643 34
33363537323734314131303444363136453637343537383734363537323645363136433434
33363537323734314131303444363136453637343537383734363537323645363136433434
35373237343141313134313643373036383631343537383734363537323645363136433434
35373237343832303634313530343935463446344239303030 3C2F4F7574075744150445 53E
0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
42657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657265726E616C43657274820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application DID
     list. Ensure that the data set list contains the expected
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657265726E616C43657274820641504 95F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DataSet list. Ensure that the data set
     list contains the expected data sets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463731303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504553E303043323030303030303030303393746384637
313035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820137A1820133A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181F03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
```

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```
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323235413131424130313931413035333232443
43434353333313141303533323244343435333332314130393431363336333635373337333443
364636373832303634313530343935463446344239303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FEA181F38081F03C6E73323A5472616E736D697452657370
6F6E73652078 6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637323235413131424130
313931413035333232443434353333331314130353332324434345333332314130393431363
3633363537333733344336463637383230363431353034393546344634423930303 C2F4F75
747075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application
      DataSet list. Ensure that the data set list contains the expected data
sets.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS1 data set.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>401</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303130374638463735304341313041383030313031383130353333232443434
353333313030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
```

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```
353043413130413830303130313831303533323244343435333331303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D44533100000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105322D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>24</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463736303838323036343 1
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F76088206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
2-DS1 data set.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
```

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```
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463739303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C20000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453312D44534931820641504 95F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453312D44534931820641504 95F4F4B9000</
OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D617274636172645369646 52D
54432D536573736 96F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6369656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130304331413041333232443
43435333331324434343533343933313832303634313530343935463446344239303030 3C2F
4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413138413130454130
3043314130413332324434343435333331324434343533343933313832303634313530343934
3446342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453312D4453493182064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>25</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 2-DS1 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453312D44534931820641504 95F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS2 DataSet</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445332</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
```

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```
303030303030303031303746384637353043413130413830303130313831303533332324434343533333232303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043323030303030303030313037463846373530434131304138303031303138313035333232443434353333323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105322D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
```

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```
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
2-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>449</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463739303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
```

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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453322D44534931820641504 95F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384637413138413130454130304331413041333232 44
34343533333232443434353334393331383230363431353034393546344634423930303C2F
4F7574075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>27</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413138413130454130
3043314130413332324434343453333332324434343533343933313832303634313530343935
3446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 2-DS2 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636636573734C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800101810941636636573734C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313437463846373531304131304538303031303138313039343136333633
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
  <annexAId>28</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E733A3A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384637
353130413130453830303130313831303934313633363336353733373334433646363730303030
303C2F496E707574415044553E0A3C2F6E733A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

     <SlotHandle>00</SlotHandle>


     <InputAPDU>00C200000000147F8F7510A10E800101810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800101810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E 736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>474</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172743617 2642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D536573736 96E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>478</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the expected DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
```

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```
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463739303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>

        <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B90
00</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011BA1820117A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181D43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413137413130444130304231413039343136 33
3633363537333733344336463637383230363431353034393546344634423930303C2F4F75
7470757441504 4553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413137413130444130
3042314130393431363336333635373337333443364636373832303634313530343935463446
```

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```
3442393030303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
     list contains the expected DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the A00000041000020001 card
application as local DIDs were authenticated
     in this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA05780C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384635393035413130333830303130313030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130313031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>504</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FEA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A2020202020C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000020001 card application
     as local DIDs were authenticated in this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the A00000041000010001 card
application as local DIDs were authenticated
      in this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A103800100000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
```

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```
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
```

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```
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>31</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A73636865D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746384635413038383230363431
353034393546344634423930303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>526</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>31</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
```

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```
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>534</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>535</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
3234373237A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>538</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000010001 card application
     as local DIDs were authenticated in this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000010001 card application. The
following set of actions shall test
     authentication of the A00000041000010001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B801968747703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

         <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>543</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>544</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>546</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

       <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>549</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646
657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>550</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>551</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030353037463846353734434131344141303435413131314238303139363837
34373437303341324632463733364436313732373436333631373236343244363836463733373
34324536453635373438383138343236433735363532303439343634343230353236353631363
34363537323230353334453332333433333332343133334383430313031383530394130303030
30303431303030303130303031383130313030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433030303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373
364436313732373436333631373236343244363836463733373432453645363535373438333138
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303030 31
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000100018101000</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384635383044413130333830303130303832303634 31
353034393546344634423930303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>563</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>566</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the
A00000041000010001 card application. The following set
    of actions shall test authentication of the A00000041000010001
application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the card application list while connected to the
A00000041000010001 card application.. Ensure
    that the CardApplicationList action can be executed on a non-alpha card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>568</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
    Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
    <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
    </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384635463035413130333830303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
463035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5F05A1038001000000</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F602AA120A01E0406E82881C117020409A0000004100001000104
09A000000410000200182064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F602AA120A01E0406E82881C117020409A0000004100001000104409A000
00041000020001820641504 95F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820141A182013DA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181FA3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636303241413132304130314530343036453832 38
383143313137303230343039413030303030303431303030303130303031303034303941303030
303030343130303030303230303031383230363431353034303546344634423930303 03C2F4F75
74707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820108A181FD8081FA3C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E374638463630324141313230 41
303145303430364538323838314331313730323034303941303030303030343130303030313 0
303031303430394130303030303034313030303032303030313832303634313530343935463 4
463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573
706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F602AA120A01E0406E82881C117020409A0000004100001000104 09A000
0004100002000182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the card
application list while connected to the
     A0000041000010001 card application.. Ensure that the
CardApplicationList action can be executed on a non-alpha card
     application.</description>
  <encodedData
type="xs:hexBinary">7F8F602AA120A01E0406E82881C117020409A0000004100001000104
09A000000410000200018206415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the CHPIN DID access rules. Ensure the CHPIN DID's
access control list can be retrieved.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901D25A123800100811544494646455245 4E5449414C2D4944454E
54495459A2078105434850494E</encodedData>
</invAspect>
<invAspect>
  <refId>584</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000297F901D25A123800100811544494646455245 4E5449414C2D4
944454E54495459A2078105434850494E0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>585</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820150A182014CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181F03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323937463930314432354131323338303031303038313135343434393436
343634353532343534453534343934313443324434393434343534453534343953435394132
3037383130353433343835303439344530303030 3C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>586</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>587</refId>
```

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```
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FEA181F38081F03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433330303030303030303032393746393031
443235413132333830303130303831313534343439343034363435353234353445345343934
313443324434393434343534453534343935343539413230373831303534333438353034393 4
45303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000297F901D25A123800100811544494646455245 4E5449414C2D4
944454E54495459A2078105434850494E0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000297F901D25A123800100811544494646455245 4E5449414C
2D4944454E54495459A2078105434850494E00</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820210A1820204A0820200301F800D43727970746F67726170
686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741
434C4C697374A2038101FF3020800D43727970746F67726170686963A10A8408446563697068
6572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A203
8201003021800D43727970746F67726170686963A10B84094765745261 6E646F6DA203820100
3025801444696666657265 6E7469616C4964656E74697479A1088506444944476574A2038101
FF3027800D43727970746F67726170686963A11840F566572696679536967 6E6174757265A2
6100</encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">038201003029800D43727970746F67726170686963A1138411566572
6966794365727469666963617465A203820100302E80144469666666572656E7469616C496465
6E74697479A111850F44494441757468656E746963617465A2038101FF3052800D417574686F
72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43
657274A1028000820100A01980104D616E6745787465726E616C43657274A102800082010030
59801444696666657265 6E7469616C4964656E74697479A10B85094449445570646174 65A234
```

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A432A015800C496E7465726E616C43657274A1028000820100A01980104D616E674578746572
6100</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">6E616C43657274A10280008201008206415049 5F4F4B9000</encode
dData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

  <OutputAPDU>7F901E820210A1820204A0820200301C800D43727970746F67726170686963
A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865 72A2
038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
3021800D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580
1444696666657265 6E7469616C4964656E74697479A10885064449444765 74A2038101FF3027
800D43727970746F67726170686963A111840F566572696679536967 6E6174757265A2038201
003029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B860941
434C4D6F64696679A234A432A015800C496E7465726E616C43657274A1028000820100A01980
104D616E6745787465726E616C43657274A10280008201003059801444696666657265 6E7469
616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E61

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```
6C43657274A1028000820100A01980104D616E6745787465726E616C43657274A10280008201
0082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820512A182050EA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818204CA3C6E73323A5472616E736D6974265737706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E37463930314538323032313041313832303230344130 38
32303230303330314338303044343337323739373037343646363737323631373036383639 36
33413130363834303435333639363736454132303338323031303033303146383030443431 37
35373436383646373236393741363137343639364636454131303938363037343134334433 34
43363937333734413230333831303146463330323038303044343337323739373037343646 36
37373236313730363836393633413130413830383434363536333639373036383635373241
32303338323031303033303230383030443433373237393730373436463637373236313730 36
38363936334131304138343038343536453633639373036383635373241323033383230313 0
30333032313830304434333732373937303734364636373732363137303638363936334131 30
42383430393437363537343532363136453634364636444132303338323031303033303235 38
30313434343639363636363635323635364537343639363136433439363436353645373436
39373437394131303838353036343434393434343736353734413230333831303146463330 32
37383030443433373237393730373436463637373236313730363836393633413131313834 30
46353636353732363936367395333639363736453631373437353732363541323033383230
31303033303239383030443433373237393730373436463637373236313730363836393633 41
31313338343131353636353732363936367393433365537323734369393636393633363137
34363541323033383230313030333032453830313434343639363636363635373236353645 37
34363936313643343936343635364537343639373437394131313138353046343434393434 34
31373537343638363536453734363936333631373436354132303338313031464633303532 38
30304434313735373436383646373236393741363137343639364636454131304238363039 34
31343334433444364636343639363637394132333441343332413031353830304334393645 37
34363537323645363136433433336353732373441313032383030303832303130304130313938
30313034443631364536373435373837343635373236453631364334333635373237344131 30
32383030303832303130303330353938303134343436393636363636353732363536453734 36
39363136433439363436353645373436393734373941313042383530393434343934343535 37
30363436313734363541323334413433324130313538303043343936453734363537323645 36
31364334333635373237344131303238303030383230313030413031393830313034443631 36
45363734353738373436353732364536313643343336353732373441313032383030303832 30
31303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C
2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```


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  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>599</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8204DAA18204CE808204CA3C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F757470757441504455 3E3746393031453832303231
3041313832303230344130383230323030333031433830304434333732373937303734364636
3737323631373036383639363341313036383430343533363936373645413230333832303130
3033303146383030443431373537543638364637323639374136313734363936463645413130
3938363037343134333443344338363937333734413230333831303146463330323038303044 34
3337323739373037343646363737323631373036383639363341313041383430383434363536
3336393730363836353732413230333832303130303330323038303044343337323739373037
3436463637373236313730363836393633413130413834303834353645363336393730363836
3537324132303338323031303033303231383030443433373237393730373436463637373236
3137303638363933413130423834303934373635373435323631364536343646364644413230
3338323031303033303235383031343434363936363636363537323635364537343639363136
4334393634363536453734363937343739413130383835303634343439343434373635373441
3230333831303146463330323738303044343337323739373037343646363737323631373036
3836393634131313138343046353636353732363936363739353336393637364536313734 37
3537323635413230333832303130303330323938303044343337323739373037343646363737
3236313730363836393633413131313338343131353636353732363936363739343336353732 37
3436393636363936333631373436354132303338323031303033303245383031343434363936
3636363635732363536453734363936313643343936343635364537343639373437394131 31
3138353046343434393434343137353734363836353645373436393633631373436354132 30
3338313031464633303532383030443431373537343638364637323639374136313734363936
4636454131304238363039343134333443344436463634363936373941323334413433324 1
3031353830304334393645373436353732364536313643343336353732373441313032383030
3038323031303041303139383031303444363136453637343537383734363537323645363136
4334333635373237344131303238303030383230313030333035393830313434343639363636
3636353732363536453734363936313643343936343635364537343639373437394131304238
3530393434343934343535373036343631373436354132333441343324130313538303043 34
3936453734363537323645363136433433363537323734413130323830303038323031303041
3031393830313034443631364536373435373837343635373236453631364343336353732 37
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34413130323830303038323031303038323036343135303439354634463442393030303C2F4F
75747075744415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820210A1820204A0820200301C800D43727970746F67726170686963
A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686572A2
038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
3021800D43727970746F67726170686963A10B84094765745261 6E646F6DA203820100302580
1444696666657265 6E7469616C4964656E74697479A1088506444944476574A2038101FF3027
800D43727970746F67726170686963A111840F5665726966795369676E6174757265A2038201
003029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B860941
434C4D6F64696679A234A432A015800C496E7465726E616C43657274A1028000820100A01980
104D616E6745787465726E616C43657274A10280008201003059801444696666657265 6E7469
616C4964656E74697479A10B8509444944557064617465A234A432A015800C496E7465726E61
6C43657274A10280008201 0A01980104D616E6745787465726E616C43657274A10280008201
0082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the CHPIN DID
access rules. Ensure the CHPIN DID's access
     control list can be retrieved.</description>
  <encodedData
type="xs:hexBinary">7F901E820210A1820204A0820200301C800D43727970746F67726170
686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741
434C4C697374A2038101FF3020800D43727970746F67726170686963A10A8408446563697068
6572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A203
8201003021800D43727970746F67726170686963A10B84094765745261 6E646F6DA203820100
3025801444696666657265 6E7469616C4964656E74697479A1088506444944476574A2038101
FF3027800D43727970746F67726170686963A111840F5665726966795369676E6174757265A2
038201003029800D43727970746F67726170686963A113841156657269667943657274696669
63617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44
494441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B
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860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A1028000820100
A01980104D616E6745787465726E616C43657274A1028000820100305980144469666665726 5
6E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465
726E616C43657274A1028000820100A01980104D616E6745787465726E616C43657274A10280
0082010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>603</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the CHPIN DID. Ensure the DID can be
retrieved.</description>
  <encodedData
type="xs:hexBinary">7F901510A10E800100A1028000820543485 0494E</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C20000000014 7F901510A10E800100A1028000820543485 0494E0000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313437463930313531304131304538303031303041313032383030303832
3035343334383530343934453030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
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```
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D227572E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746393031
353130413130453830303130304131303238303030383230353433343835303439344530303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000147F901510A10E800100A10280008205434850494E0000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F901510A10E800100A10280008205434850494E00</en
codedData>
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901625A11BA019800543485049 4E81072881C117030003A2028000
830100840082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901625A11BA019800543485049 4E81072881C117030003A2028000830100
840082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>35</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820137A1820133A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455 3E37463930313632354131314241303139383030353433438
353034393445383130373238383143313137303330303033413230323830303833303130
38343030383230363431353034393546344634423930303C2F4F757470757441504455 3E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>616</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FEA181F38081F03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E37463930313632354131314241 30
313938303035343334383530343934453831303732383831433131373033303033413230323
2
```

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```
383030303833303130303834303038323036343135303439354634463442393030303C2F4F75
747070574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901625A11BA019800543485049 4E81072881C117030003A2028000830100
840082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the CHPIN DID.
Ensure the DID can be retrieved.</description>
  <encodedData
type="xs:hexBinary">7F901625A11BA019800543485049 4E81072881C117030003A2028000
830100840082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to retrieve the A00000041000010001 card application
DataSet list. This action is expected to fail
     as we have not yet authenticated the Internal and CHPIN DIDs in this
connection.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463730354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4D54432D53
657373696F6E49442D328100821C536D617274636172645369646 4D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>627</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544944900</encodedData>
</invAspect>
<invAspect>
  <refId>628</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544944900</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>629</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646452D
54432D536573736F6E49442D328100821C536D617274636172645369646452D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D613323E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455453E3746384637323236383232343431353034393546353334
343335353532343935343539354634333446344534343439353434393446344535463446344
353433546353334313534343935333436343934353434393030303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>630</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>36</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574075744154544553E3746384637323263832323434
313530343935463533343534333535353523439353435393546343334463445343439353434
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494545449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
```


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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to retrieve the
A00000041000010001 card application DataSet
     list. This action is expected to fail as we have not yet authenticated
the Internal and CHPIN DIDs in this
     connection.</description>
  <encodedData
type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>635</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate as the card holder (CHPIN).</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800100A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800100A10280008205434850494E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
```

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```
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313637463930314231324131313038303031303041313032383030303832
3035343334383530343934453833303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>638</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>639</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61233E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031363746393031
4231324131313038303031303041313032383030303832303534333438353034393445383330
3030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800100A10280008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A11080010 0A10280008205434850494E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008 2064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>644</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA10280008 2064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>37</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445553E37463930314330434131303238303030383230363431353O
343935463446344239303030 3C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>646</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>647</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E37463930314330434131303238 30
303038323036343135303439354634463442393030303C2F4F7574075744150445553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate as the card
holder (CHPIN).</description>
  <encodedData
type="xs:hexBinary">7F901C0CA1028000820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to retrieve the A00000041000010001 card application
DataSet list. This action is expected to fail
     as we have not yet authenticated the Internal DID. Ensure that the AND
access rule operator requires both operands to
     be true.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>

        <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846373130354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>656</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>657</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A10380010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>658</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F53415449534649454944 9000</encodedData>
</invAspect>
<invAspect>
  <refId>660</refId>
  <annexAId>38</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494549449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445453E574638463732323638323234343135303439354635333435
343335353532343935343539354634333446344534343439353434393446344535463446
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>664</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746384637323236383232343434
313530343935463533343534333535353234393534353935463433344634453434343953434
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>665</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346945449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>666</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to retrieve the
A00000041000010001 card application DataSet
     list. This action is expected to fail as we have not yet authenticated
the Internal DID. Ensure that the AND access
     rule operator requires both operands to be true.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>667</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the InternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C436572748300
</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030314437463930314231394131313738303031303041313032383030303832
3043343936453734363537323645363136433433363537323734383330303030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>670</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313030413130323830303038323043343936453734363537323645 36
3136433433363537323734383330303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800100A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369 64652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>680</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463446344239303030 3C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>681</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```


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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>682</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>683</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
 <description>Retrieve the A000000041000010001 card application DataSet list.
This action shall now succeed. Ensure that
      the AND access rule operator requires both operands to be
true.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>684</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>685</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463731303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>686</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>689</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>691</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
```

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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820145A1820141A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181FE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323243413132324130323031413033533132443
343435333331314130353331324434343533333231413035333132443434353333333314130393
343136333633363537333733344336363738323036343135303439354634463442393030303
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>696</refId>
```

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```
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82010DA18201018081FE3C6E73323A5472616E736D69745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A202020203C4F7574707574415044553E3746384637323243413132
4130323031413035333132443434353333313141303533313244343435333332314130353331
32443434353333333141303934313633363336335373337333443364636373832303634313530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>697</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>698</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application DataSet list. This
     action shall now succeed. Ensure that the AND access rule operator
requires both operands to be true.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>699</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 1-DS1 DataSet access rules. Ensure the 1-DS1
Data Set's access control list can be retrieved
     before executing a dataSetSelect operation.</description>
  <encodedData
type="xs:hexBinary">7F901D18A11680010081084441544 12D534554A2078005312D445331
</encodedData>
</invAspect>
<invAspect>
  <refId>700</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001C7F901D18A11680010081084441544 12D534554A2078005312
D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>701</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820136A1820132A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303143374639303144313841313136383030313030383130383434343135
3431324435333435353441323037383030353331324434343533333130303030 3C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>702</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>703</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>704</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044455E3030433230303030303030303031433746393031
443138413131363830303130303038313038343431353434313244353334353534413230373738
303035333132443434353333313030303033C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>705</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001C7F901D18A11680010081084441544412D534554A2078005312
D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>41</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001C7F901D18A11680010081084441544 12D534554A2078005
312D44533100</encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E8203DEA18203D2A08203CE301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF304D80094E616D656444617461A10A83084453
495772697465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D
616E6745787465726E616C43657274A10280008201 00304E80094E616D656444617461A10B83
094453494372656 7465A234A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201 0304E80094E616D6564446174
61A10B830944534944656C657465A234A432A015800C496E7465726E616C43657274A1028000
6100</encodedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>709</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">8201FFA01980104D616E6745787465726E616C43657274A102800082
01003052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
```

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```
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A1028000820100308195800 94E616D656444617461A10983074453494C697374A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A0198010426574614578746572 6E616C43
6100</encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">657274A10280008201003081958009 4E616D656444617461A1098307
44534952656164A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
820100A01A8011416C706861457874657 26E616C43657274A1028000820100A0198010426574
6145787465726E616C43657274A10280008201003081998009 4E616D656444617461A10D830B
446174615365744C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FF
A562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274
6100</encodedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">A1028000820100A01A8011416C706861457874657261E616C43657274
A1028000820100A019801042657461457874657261E616C43657274A10280008201003081980
094E616D656444617461A10F830D4461746153657453656C656374A27DA47BA015800C496E74
65726E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA0198010
4D616E6745787465726E616C43657274A1028000820100A01A8011416C70686145787465726E
616C43657274A1028000820100A019801042657461457874657261E616C43657274A1028000820
0100820641504951F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E8203DEA18203D2A08203CE301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF304D80094E616D656444617461A10A83084453495772
697465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67
45787465726E616C43657274A1028000820100304E80094E616D656444617461A10B83094453
49437265617465A234A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A1028000820100304E80094E616D656444617461A10B
830944534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201003052800D417574686F7269
7A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C436572
74A10280008201FFA01980104D616E6745787465726E616C43657274A102800008201003081950
80094E616D656444617461A10983074453494C697374A27DA47BA015800C496E7465726E616C
43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E6745
7874657261E616C43657274A1028000820100A01A8011416C706861457874657261E616C436572
74A1028000820100A019801042657461457874657261E616C43657274A1028000820100308195
80094E616D656444617461A109830744534952656164A27DA47BA015800C496E7465726E616C
43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E6745
787465726E616C43657274A1028000820100A01A8011416C706861457874657261E616C436572
74A1028000820100A019801042657461457874657261E616C43657274A1028000820100308199
80094E616D656444617461A10D830B446174615365744C697374A27DA47BA015800C496E7465
726E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D
616E6745787465726E616C43657274A1028000820100A01A8011416C706861457874657261E61
6C43657274A1028000820100A019801042657461457874657261E616C43657274A1028000820
0030819B80094E616D656444617461A10F830D4461746153657453656C656374A27DA47BA015
800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280008201
FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70686145
787465726E616C43657274A1028000820100A019801042657461457874657261E616C43657274
A10280008201008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>715</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F318208AEA18208AAA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818208663C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323737A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E37463930314538323033444541313832303344324130 38
32303343453330314638303044343137353734363836463732363937413631373436393646 36
45413130393836303734313433344334433639373337344132303338313031464633303444 38
30303934453631364436353634343436313734363141313041383330383434353334393537 37
32363937343635413233344134333241303135383030433439364537343635372364536313 6
43343336353732373441313032383030303832303146464130313938303130344436313645 36
37343537383734363537323645363136433433363537323734413130323830303038323031 30
30333034453830303934453631364436353634343436313734363141313042383330393435
33343934333732363536313734363541323334413433324130313538303043343936453737 36
35373236453631364334333635373237344131303238303030383230314646413031393830 31
30344436313645363734353738373436353732364536313643343336353732373441313032 38
30303038323031303033303445383030393445361364436353634343631374363141311 30
42383330393434353334393434363536433635734363541323334413433324130313538303 0
43343936453734363537323645363136433433363537323734413130323830303038323031 46
46413031393830313034443631364536374353738373436353732364536313643343336353 7
32373441313032383030303832303130303330532383030443431373537343638364637323 6
39374136313734363936463645413130423836303934313433344334443646363436393637 37
39413233344134333241303135383030433439364537343635373236453631364334333635 37
32373441313032383030303832303146464130313938303130344436313645363734353738 37
34363537323645363136433433363537323734413130323830303038323031303033303831 39
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  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
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  <refId>717</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
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</invAspect>
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  <refId>718</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
    marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820876A182086A808208663C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
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4B3C2F526573756C743E0A202020203C4F757470757441504455 3E37463930314538323033344
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4634463442393030303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D697452
6573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>719</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901E8203DEA18203D2A08203CE301F800D417574686F72697A6174696F6E
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697465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67
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4D616E6745787465726E616C43657274A1028000820100304E80094E616D656444617461A10B
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A01980104D616E6745787465726E616C43657274A1028000820100305280 0D417574686F7269
7A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C436572
74A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100308195
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74A1028000820100A0198010426574614578746 5726E616C43657274A1028000820100308195
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726E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D
616E6745787465726E616C43657274A1028000820100A01A8011416C7068614578746 5726E61
6C43657274A1028000820100A0198010426574614578746 5726E616C43657274A10280008201
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787465726E616C43657274A1028000820100A0198010426574614578746 5726E616C43657274
A10280008201008206415049 5F4F4A89000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>720</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS1 DataSet
access rules. Ensure the 1-DS1 Data Set's
    access control list can be retrieved before executing a dataSetSelect
operation.</description>
  <encodedData
type="xs:hexBinary">7F901E8203DEA18203D2A08203CE301F800D417574686F72697A6174
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61A10B830944534944656C657465A234A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201003052800D41757468
6F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100
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6E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D61
6E6745787465726E616C43657274A1028000820100A01A8011416C7068614578746 5726E616C
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43657274A1028000820100A019801042657461457874657 26E616C43657274A1028000820100
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6E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D61
6E6745787465726E616C43657274A1028000820100A01A8011416C70686145787465726E616C
43657274A1028000820100A019801042657461457874657 26E616C43657274A1028000820100
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0082010030819B80094E616D656444617461A10F830D446174615365745365 6C656374A27DA4
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  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>722</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>723</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
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6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
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6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
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3533331303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>724</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>725</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
3530434131304138303031303038313035333132443434353333313030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>727</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>731</refId>
```

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```
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546346344634239
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>733</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>734</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
```

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```
353034393546344634423930303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>735</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>736</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Select the 1-DS1
DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>737</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 1-DS1-DSI1 DSI contents. Ensure that a DSI can
be read.</description>
  <encodedData
type="xs:hexBinary">7F900111A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>738</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A312D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>739</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D22 726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D612 3E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303135374639303031313141313046383030313030383130413331324434
3533333132443434353334393331303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>740</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>741</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031353746393030
3131314131304638303031303038313041333132443434353333313244434345333439333130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A312D4453312D445349310000</I
nputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F900111A10F800100810A312D4453312D4453493100</
encodedData>
</invAspect>
<invAspect>
  <refId>745</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F
423A20323030382D31302D303382064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>746</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F423A20
323030382D31302D303382064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>747</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820148A1820144A03E801C536D617274636172645369646652D
54432D536573736F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201003C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F757470757441504455 3E3746393030323244413132333830323134453631364436
353341323034323646363232303444363334433635363136453342323034343446343232334132
303332333033303338324433313330324433303333383230363431353034393546344634423
3030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73
653E</encodedData>
</invAspect>
<invAspect>
  <refId>748</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
```

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```
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820110A1820104808201006C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393030323244413132
3338303231344536313644363533413230343236463632323034443633344336353631364533
4232303434344634323341323033323330333033383244333133303244333033333832303634
3135303439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A547261
6E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>751</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F423A20
323030382D31302D303382064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>752</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS1-DSI1
DSI contents. Ensure that a DSI can be read.</description>
  <encodedData
type="xs:hexBinary">7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F
423A20323030382D31302D303382064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>753</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect again to the A00000041000010001 card application.
Ensure that a second connection does not
      inherit the first connections privileges. The DIDs authenticated above
are local in scope. Therefore the DIDs state
      is only true in the connection in which the DID is
authenticated.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A000000410000100018101000</encodedData>
</invAspect>
<invAspect>
  <refId>754</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>755</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030353037463846353734434131344141303435413131423830313936383
343734373033413246324637333644363137323734363336313732363432443638364637333
343245364536353734383331383432364337353635323034393436343432303532363536313
343635373232303533344533323334333333323431333438343031303131383530394130303030
303034313030303031303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>756</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>757</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>758</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463273 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>759</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B80196874747 03A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100001000181010000 00</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>760</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100001000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>761</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>763</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D697452657370 6F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130313832303634 31
353034393546344634423930303 03C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>44</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>767</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA2038001018206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect again to the
A000000041000010001 card application. Ensure that
     a second connection does not inherit the first connections privileges.
The DIDs authenticated above are local in
     scope. Therefore the DIDs state is only true in the connection in which
the DID is authenticated.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001018206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Attempt to retrieve the A00000041000010001 card application
DataSet list. This action is expected to fail
      as we have not yet authenticated the required DIDs in this connection.
Ensure that, for local scope DIDs, the DIDs
      state is only true in the connection in which the DID is authenticated.
The Internal and CHPIN DIDs were
      authenticated in the previous connection.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>770</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>771</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D536573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846373130354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>772</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>773</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>774</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E7075744150445553303043323030303030303030303393746384637
3130354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>775</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>776</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>777</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544900 0</encodedData>
</invAspect>
<invAspect>
  <refId>778</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544900 0</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>779</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384637323236383232343431353034393546353334 35
343335353532343935343539354634333446344534343439353434393446344535463445344 6
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353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>781</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D61727463617264D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F757470757441504455 3E3746384637323236383232343434
313530343935465333435343335353532343935343539354634333446344534343439353434
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346945449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to retrieve the
A00000041000010001 card application DataSet
      list. This action is expected to fail as we have not yet authenticated
the required DIDs in this connection. Ensure
      that, for local scope DIDs, the DIDs state is only true in the
connection in which the DID is authenticated. The
      Internal and CHPIN DIDs were authenticated in the previous
connection.</description>
  <encodedData
type="xs:hexBinary">7F8F722682244150495F534543555249545 95F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the second A00000041000010001 card
application connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>787</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463539303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>788</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>789</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>790</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>791</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>792</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>793</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>794</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>795</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546346344634239
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>798</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>799</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>800</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the second
A00000041000010001 card application
      connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000020001 card application. The
following set of actions shall test
      authentication of the A00000041000020001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>802</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B80196874747703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100002000181010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>803</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A323437323A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030353037463846353734434131344141303435413131423830313936383 7
343734373038413246324637333644363137323734363336313732363432443638364637333 7
343245364536353734383331383432364337353635323034393436343432303532363536313 6
343635373232303533344533323334333333323431333438343031303138353039413030303 0
303043130303030323030303138313031303030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>804</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>805</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>806</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463733
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353031363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303030230303031
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>807</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>808</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100002000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>809</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001018206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>810</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA1038001018206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>811</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
```

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20203C4F7574707574415044553E3746384635383044413130333830303130313832303634313
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>812</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>813</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>814</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130313832303634313530343935463446344639303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>815</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>816</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the
A00000041000020001 card application. The following set
     of actions shall test authentication of the A00000041000020001
application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>817</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000020001 AlphaExternalCert
DID.</description>
  <encodedData
type="xs:hexBinary">7F90151CA11A800101A10280008211416C70686145787465726E616C
43657274</encodedData>
</invAspect>
<invAspect>
  <refId>818</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000207F90151CA11A800101A10280008211416C706861457874657
26E616C436572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>819</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182013EA182013AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181DE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303032303746393031353143413131314138303031303141313032383030303832
313134313643373036383631343537383734363537323645363136433433363537323737343030
30303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>820</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>821</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>822</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032303746393031
353143413131314138303031303141313032383030303832313134313643373036383631343537
383734363537323645363136433433363537323734303030303C2F496E707574415044553E0A
3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>823</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000207F90151CA11A800101A10280008211416C706861457874657
26E616C436572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>824</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000207F90151CA11A800101A10280008211416C706861457874
65726E616C4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>825</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901631A127A0258011416C706861457874657265726E616C4365727481
072881C117030003A2028000830100840082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>826</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
```

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```
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901631A127A0258011416C70686145787465726E616C4365727481072881
C117030003A2028000830100840082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>827</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820150A182014CA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201083C6E73323A5472616E73616374526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031363331413132374130323538303131343136
433730363836313435373837343635373236453631364333433635373237343831303732383
3143313137303330303033413230323830303033303330383430303832303631353034
393546344634423930303033C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69
74526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>828</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>829</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>830</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820118A182010C808201083C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445553E37463930313633313413132
37413032353830313134313643373036383631343537383734363537323645363136433433336
35373237343831303732383831433131373033303033034132303238303038333031303038
34303038323036343135303439354634463442393030303C2F4F7574075744150445553E0A3C
2F6E73323A5472616E736D6974526573706F6E73653E820641504956F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>831</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901631A127A0258011416C70686145787465726E616C4365727481072881
C117030003A202800083010084008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>832</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000020001 AlphaExternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901631A127A0258011416C70686145787465726E616C4365727481
072881C117030003A202800083010084008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>833</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to retrieve the A00000041000020001 card application
DataSet list. This action is expected to fail
      as we have not yet authenticated the Internal and AlphaExternalCert
DIDs in this connection.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>834</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>835</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D536573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A323437323732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846373130354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>836</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>837</refId>
```

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```
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>838</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>839</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>840</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
```

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```
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>841</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544944900</encodedData>
</invAspect>
<invAspect>
  <refId>842</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544944900</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>843</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384637323236383232343431353034393546353334 35
343335353532343935343539354634333446344534343439353434393446344535463445344 6
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>844</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>845</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>846</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E7365207865C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746384637323236383232343434
313530343935463533343534333535353234393534353935463433344634453434343953434
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>847</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544944900</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>848</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to retrieve the
A00000041000020001 card application DataSet
     list. This action is expected to fail as we have not yet authenticated
the Internal and AlphaExternalCert DIDs in
     this connection.</description>
  <encodedData
type="xs:hexBinary">7F8F722682244150495F534543555249545595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>849</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the Alpha external DID.</description>
  <encodedData
type="xs:hexBinary">7F901B1EA11C800101A10280008211416C70686145787465726E616C
436572748300</encodedData>
</invAspect>
<invAspect>
  <refId>850</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000227F901B1EA11C800101A10280008211416C706861457874657
26E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>851</refId>
```

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```
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820142A182013EA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E23C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303232374639303142314541313143383030313031413130323830303038
3131343136433730363836313435373837343635373236453631364334333635373237343833
3030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encode
dData>
</invAspect>
<invAspect>
  <refId>852</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>853</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>854</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81F0A181E58081E23C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303232374639303 1
42314541313143383030313031413130323830303038323131343136433730363836313435373
```

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```
383734363537323645363136433433363537323734383330303030303030303C2F496E7075744150
44553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>855</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000227F901B1EA11C800101A10280008211416C706861457874657
26E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>856</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000227F901B1EA11C800101A10280008211416C706861457874
65726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>857</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>858</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>859</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>860</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>861</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>862</refId>
```

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```
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546346346344239303030C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>863</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>864</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the Alpha
external DID.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>865</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to retrieve the A00000041000020001 card application
DataSet list. This action is expected to fail
     as we have not yet authenticated the Internal DID. Ensure that the AND
access rule operator requires both operands to
```

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```
      be true. Ensure that the authenticated DIDs with the same name in a
different card application and different
      connection do not affect the DIDs in this card application and
connection.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>866</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7105A103800101000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>867</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463731303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>868</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>869</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>870</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
313035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>871</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>872</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>873</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544944900</encodedData>
</invAspect>
<invAspect>
  <refId>874</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544944900</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>875</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323236383232343431353034393546353334 35
3433353535323439353435393546343334463445343434393534343934463445354634453446
3534354635333431353434393533343634393435343439303030 3C2F4F75747075744150445 5
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>876</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>877</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>878</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E374638463732323638323234343
313530343935463533343534333535353234393534353935463433344634453434343939353434
393446344535463345344635343546353333431353434393533343634393435343439303030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>879</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F8F722682244150495F5345435524954595F434F4E444954494F4E5F4E4F
545F534154495346494544 9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>880</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to retrieve the
A0000041000020001 card application DataSet
      list. This action is expected to fail as we have not yet authenticated
the Internal DID. Ensure that the AND access
      rule operator requires both operands to be true. Ensure that the
authenticated DIDs with the same name in a different
      card application and different connection do not affect the DIDs in
this card application and connection.</description>
  <encodedData
type="xs:hexBinary">7F8F722682244150495F5345435524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>881</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the InternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>882</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>883</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031443746393031423139413131313738303031303141313032383030303832
304334393645373436353732364536313643343336353732373438333030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>884</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>885</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>886</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
423139413131313738303031303141313032383030303832304334393645373436353732364536
```

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```
313643343336353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>887</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>888</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800101A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>889</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>890</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>891</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>892</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>893</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>894</refId>
```

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```
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>895</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>896</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>897</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
 <description>Retrieve the A00000041000020001 card application DataSet list.
This action shall now succeed. Ensure that
     the AND and OR access rule expressions are tested.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>898</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>899</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A82010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369 64652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D69742078D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846373130354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>900</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>901</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>902</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>903</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>904</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>905</refId>
```

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```
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>906</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>907</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820137A1820133A03E801C536D617274636172645369646652D
54432D536573696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181F03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323235413131424130313931413035333232443
43435333331314130353332324434343533333231413039343136333633363535373337333443
3646363738323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>908</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>909</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>910</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FA181F38081F03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A73636865D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637323235413131424130
3139314130353332324434343533333131413035333232443434353333323141303934313633
3633363537333733344336463637383230363431353034393546344634423930303C2F4F75
74707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>911</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>912</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000020001 card application DataSet list. This
     action shall now succeed. Ensure that the AND and OR access rule
expressions are tested.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>913</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Select the 2-DS1 data set.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
</invAspect>
<invAspect>
  <refId>914</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>915</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031303746384637353043413130413830303130313831303533332324434
353333313030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>916</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504955F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>917</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>918</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130313831303533332324434343533333130303030 3C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>919</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>920</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105322D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>921</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>922</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>923</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645364652D5443
2D53657373696F6E49442D328100821C536D617274636172645369645265544432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>924</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>925</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>926</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
```

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```
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>927</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>928</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Select the 2-DS1 data
set.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>929</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 2-DS1-DSI1 DSI contents. Ensure that a DSI can
be read.</description>
  <encodedData
type="xs:hexBinary">7F900111A10F800101810A322D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>930</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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```
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800101810A322D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>931</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A05780C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031353746393030313131413130463830303130313831304133323244343
4353333313244343435333439333130303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>932</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>933</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4652D54432D53
657373696F6E49442D328100821C536D617274636172645369646 4652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>934</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E303043323030303030303030313537463930303
3131314131304638303031303138313041333232443434353333313244434345333439333130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>935</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800101810A322D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>936</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F900111A10F800101810A322D4453312D4453493100</
encodedData>
</invAspect>
<invAspect>
  <refId>937</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90023FA135803349443A2031323334353B20436C6173733A20433B
20526573747269637469 6F6E733A204E6F6E653B20506F696E74733A20313282064150495F4F
4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>938</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F90023FA135803349443A2031323334353B20436C6173733A20433B205265
737472696374696F6E733A204E6F6E653B20506F696E74733A20313282064150495F4F4B9000
</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>939</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182016CA1820168A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D32818201243C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393030323346413133353830333334393434334132
303331333233333334333533423230343336433631373337333341323034333334233035323 6
353733734373236393633373436393646364537333341323034453646364536353342323035
303646363936453734373333413230333133323832303634313530343935463446344639303 0
303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E
</encodedData>
</invAspect>
<invAspect>
  <refId>940</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>941</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F737 42E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>942</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820134A18201288082012 43C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393030323346413133
353830333334393434334132303331333233333334333533423230343336433631733373333
413230343333423230353236353333373437323639363337343639364636453733333413230
453646364536353342323035323064636393645373437333341323033313332383230363431 35
303439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E73
6D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>943</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90023FA135803349443A2031323334353B20436C6173733A20433B205265
73747269637469 6F6E733A204E6F6E653B20506F696E74733A203132820641504 95F4F4B9000
</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>944</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 2-DS1-DSI1
DSI contents. Ensure that a DSI can be read.</description>
  <encodedData
type="xs:hexBinary">7F90023FA135803349443A2031323334353B20436C6173733A20433B
20526573747269637469F6E733A204E6F6E653B20506F696E74733A203132820641504 95F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>945</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to create the 2-DS1-DSI2 DSI. This attempt shall fail
due to a lack of create permission.</description>
  <encodedData
type="xs:hexBinary">7F8F7B4FA14D800101810A322D4453312D44534932823C49443A2033
343536373B20436C6173733A20423B20526573747269637469F6E733A206D61782031322070
6572736F6E3B20506F696E74733A203132</encodedData>
</invAspect>
<invAspect>
  <refId>946</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000537F8F7B4FA14D800101810A322D4453312D44534932823C494
43A2033343536373B20436C6173733A20423B20526573747269637469F6E733A206D6178203
13220706572736F6E3B20506F696E74733A2031320000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>947</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201A5A18201A1A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201443C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303035333746384637423446413134443830303130313831304133323443
34353333313244343435333439333238323343343934343341323033333334333533363337
33342323034333643363137333733333413230343233423230353236353733373437323639
34363936463645373333413230364436313738323033313332323037303635373237333364
45334232303530364636393645373437333341323033313332303030303C2F496E7075744150
44553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>948</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>949</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>950</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820154A1820148808201443C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035333746
384637423446413134443830303130313831304133323244343435333331324434343533343439
333238323343343934343341323033333334333533363337333437323639363337333437333
334132303433233423230353236353733373437323639363337343639364636453733334132303
364436313738323033313332323037303635373237333646364533423230353036463636393645
```

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```
3734373333413230333133323030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>951</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000537F8F7B4FA14D800101810A322D4453312D44534932823C494
43A2033343536373B20436C6173733A20423B2052657374726963746963696F6E733A206D6178203
13220706572736F6E3B20506F696E74733A2031320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>952</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000537F8F7B4FA14D800101810A322D4453312D44534932823C
49443A2033343536373B20436C6173733A20423B2052657374726963746963696F6E733A206D6178
2031322070657273F6E3B20506F696E74733A20313200</encodedData>
</invAspect>
<invAspect>
  <refId>953</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C2682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494945449000</encodedData>
</invAspect>
<invAspect>
  <refId>954</refId>
  <annexAId>56</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7C2682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494549449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>955</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E574638463743323638323234343135303439354635333435
343335353532343935343539354634333446344534343439353434393446344535346346345
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>956</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>957</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>958</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746384637433236383232343434
313530343935463533343534333535353234393534353935463433344634453434343939534343
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>959</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7C2682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346945449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>960</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to create the 2-
DS1-DSI2 DSI. This attempt shall fail due to a
     lack of create permission.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F7C2682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>961</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the Management External DID. This is needed for
the DSI write actions.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>962</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>963</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323137463930314231444131314238303031303141313032383030303832
3130344436313645363734353738373436353732364536313643343336353732373438333030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
```

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```
</invAspect>
<invAspect>
  <refId>964</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>965</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>966</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D227572E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032313746393031
42314441313142383030313031413130323830303038323130344436313645363734353837
343635373236453631364334333635373237343833303030303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>967</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>968</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800101A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>969</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>970</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>971</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>972</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>973</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>974</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>975</refId>
```

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```
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>976</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
Management External DID. This is needed for the DSI
     write actions.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>977</refId>
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiWrite</method>
  <invocationType>CALL</invocationType>
  <description>Update the 2-DS1-DSI1 DSI. Ensure that a DSI can be
updated.</description>
  <encodedData
type="xs:hexBinary">7F8F7F45A143800101810A322D4453312D44534931823249443A2031
323334353B204A4C6173733A20433B20526573747269637469 6F6E733A204E6F6E653B20506F
696E74733A2039</encodedData>
</invAspect>
<invAspect>
  <refId>978</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000497F8F7F45A143800101810A322D4453312D445349318232494
43A2031323334353B20436C6173733A20433B2052657374726963746F6E733A204E6F6E653
B20506F696E74733A20390000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>979</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820191A182018DA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818201303C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030343937463846374634354131343338303031303138313041333232443 4
343533333132443434353334393331383233323839343433413230333133323333333433353 3
423230343336433631373337333341323034333422303532363537333734373236393633373
343639364636453733334132303445364636453635334232303530364636393645373437333 3
413230333930303030 3C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>980</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>981</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>982</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820140A1820134808201303C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303034393746
384637463435413134333830303130313831304133323244343435333331324434343533343
333138323332343934343341323033313332333333343335334232303433364336313733373
334132303433334232303532363537333734373236393633373436393646364537333341323
344536463645363533423230353036463639364537343733334132303339303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>983</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000497F8F7F45A143800101810A322D4453312D445349318232494
43A2031323334353B20436C6173733A20433B20526573747269637469 6F6E733A204E6F6E653
B20506F696E74733A20390000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>984</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000497F8F7F45A143800101810A322D4453312D445349318232
49443A2031323334353B20436C6173733A20433B20526573747269637469 6F6E733A204E6F6E
653B20506F696E74733A203900</encodedData>
</invAspect>
<invAspect>
  <refId>985</refId>
  <annexAId>58</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90000882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>986</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90000882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>987</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393030303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>988</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>989</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>990</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393030303038383230363431
353034393546344634423930303C2F4F75747075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>991</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90000882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>992</refId>
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiWrite</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Update the 2-DS1-DSI1 DSI.
Ensure that a DSI can be updated.</description>
  <encodedData type="xs:hexBinary">7F900008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>993</refId>
  <annexAId>59</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the Management external DID. Ensure that the state
is now set to true.</description>
  <encodedData
type="xs:hexBinary">7F90151BA119800101A102800082104D616E6745787465726E616C43
657274</encodedData>
</invAspect>
<invAspect>
  <refId>994</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001F7F90151BA119800101A102800082104D616E6745787465726
E616C436572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>995</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182013CA1820138A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181DC3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303146374639303135314241313139383030313031413130323830303038 32
3130344436313645363734353738373436353732364536313643343336353732373430303030
3C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>996</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>997</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>998</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EA181DF8081DC3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031463746393031
353142413131393830303130314131303238303030383231303444363136453637343537383
343635373236453631364334333635373237343030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>999</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000001F7F90151BA119800101A102800082104D616E6745787465726
E616C436572740000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1000</refId>
  <annexAId>59</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001F7F90151BA119800101A102800082104D616E6745787465
726E616C4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>1001</refId>
  <annexAId>59</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901630A126A02480104D616E6745787465726E616C436572748107
2881C117030003A20280008301FF840082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1002</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901630A126A02480104D616E6745787465726E616C4365727481072881C1
17030003A20280008301FF840082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1003</refId>
  <annexAId>59</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201063C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E37463930313633304131323641303234383031303444436
313645363734353738373436353732364536313643343336353732373438313037323838383143
313137303330303033413230323830303038333031464638343030383230363431353034393546
463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526
6573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1004</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1005</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1006</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820116A182010A808201063C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393031363330413132
```

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```
364130323438303130344436313645363734353738373436353732364536313643343336353732373438313037323838314331313730333030303341323032383030303833303146463834303038323036343135303439354634463442393030303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1007</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901630A126A02480104D616E6745787465726E616C4365727481072881C117030003A20280008301FF840082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1008</refId>
  <annexAId>59</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the Management external DID. Ensure that the state is now set
     to true.</description>
  <encodedData type="xs:hexBinary">7F901630A126A02480104D616E6745787465726E616C4365727481072881C117030003A20280008301FF840082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1009</refId>
  <annexAId>60</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 2-DS1-DSI2 DSI. This attempt shall now succeed.</description>
  <encodedData type="xs:hexBinary">7F8F7B4FA14D800101810A322D4453312D44534932823C49443A2033343536373B20436C6173733A20423B20526573747269637469 6F6E733A206D61782031322070657273 6F6E3B20506F696E74733A203132</encodedData>
</invAspect>
<invAspect>
  <refId>1010</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```


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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000537F8F7B4FA14D800101810A322D4453312D445349328233C494
43A2033343536373B20436C6173733A20423B2052657374726963746963F6E733A206D6178203
13220706572736F6E3B20506F696E74733A2031320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1011</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201A5A18201A1A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747A703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818201443C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303030353337463846374234464131344438303031303138313041333232443434
34353333313244343435333439333238323334334393434334132303333333433353336333733
42323034333643363137333733341323034323342323035323635373337343732363936333734
34363936463645373333413230364436313738323033313332323037303635373237333646364
45334232303530364636393645373437333341323033313332303030303C2F496E7075744150
44553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1012</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1013</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1014</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820154A1820148808201443C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035333746
384637423446413134443830303130313831304133323244343435333331324434343543333439
333238323433433934343341323033333334333533363337343232303433364336313733373 3
334132303432334232303532363537333734373236393633373436393646364537333341323 0
364436313738323033313332323037303635373237333646364533423230353036463639364 5
373437333341323033313332303030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1015</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000537F8F7B4FA14D800101810A322D4453312D44534932823C494
43A2033343536373B20436C6173733A20423B2052657374726963746 96F6E733A206D6178203
13220706572736F6E3B20506F696E74733A2031320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1016</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000537F8F7B4FA14D800101810A322D4453312D44534932823C
49443A2033343536373B20436C6173733A20423B20526573747269637469 6F6E733A206D6178
20313220706572736F6E3B20506F696E74733A20313200</encodedData>
</invAspect>
<invAspect>
  <refId>1017</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1018</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1019</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F75747075744154 5044553E3746384637433038383230363431353034393546344634423930
30303C2F4F75747075744154 5044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1020</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1021</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1022</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637433038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1023</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1024</refId>
  <annexAId>60</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 2-DS1-DSI2 DSI.
This attempt shall now succeed.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1025</refId>
  <annexAId>61</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didUpdate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to update the Alpha external DID. This action is
expected to fail on a simple assertion protocol.</description>
  <encodedData
type="xs:hexBinary">7F901724A12280010181114161706861457874657261616C43657274
A20A80084D6F646966696564</encodedData>
</invAspect>
<invAspect>
  <refId>1026</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901724A12280010181114161C706861457874657261616C4
3657274A20A80084D6F6469666965640000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1027</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303032383746393031373234413132323830303130313831313343136433730
363836313435373837343635373236453631364334333635373237344132304138303038344
364636343639363636393635363430303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1028</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1029</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1030</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
    IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
373234413132323830303130313831313134313643373036383631343537383734363537323
6453631364334333635373237344132304138303038344436463634363936363639363536343
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>1031</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901724A12280010181114l6C70686145787465726E616C4
3657274A20A80084D6F6469666965640000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1032</refId>
  <annexAId>61</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901724A12280010181114l6C70686145787465726E61
6C43657274A20A80084D6F64696669656400</encodedData>
</invAspect>
<invAspect>
  <refId>1033</refId>
  <annexAId>61</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90182782254150495F494E415050524F5052494154455F50524F54
4F434F4C5F464F525F414354494F4E9000</encodedData>
</invAspect>
<invAspect>
  <refId>1034</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>


  <OutputAPDU>7F90182782254150495F494E415050524F5052494154455F50524F544F434F
4C5F464F525F414354494F4E9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1035</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182013BA1820137A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181F43C6E73323A5472616E736D697452657370 6F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031383237383232353431353034393546343934
3431353035303532344635303532343934313534343535463530353234463534346346333446
3443354634363446353235463431343335343439344634453930303C2F4F75747075744150
44553E0A3C2F6E73323A5472616E736D697452657370 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1036</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1037</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1038</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```


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```
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820102A181F78081F43C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746393031383232373832323534
313530343935463439344534313530353035323446353035323439343135343435354635303 5
323446353434463433344634433546343634465323546343134333534343934463445393030
303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1039</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90182782254150495F494E415050524F5052494154455F50524F544F434F
4C5F464F525F414354494F4E9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1040</refId>
  <annexAId>61</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didUpdate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to update the
Alpha external DID. This action is expected to
     fail on a simple assertion protocol.</description>
  <encodedData
type="xs:hexBinary">7F90182782254150495F494E415050524F5052494154455F50524F54
4F434F4C5F464F525F414354494F4E</encodedData>
</invAspect>
<invAspect>
  <refId>1041</refId>
  <annexAId>62</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A00000041000020001
application as local DIDs were authenticated
```

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```
      during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>1042</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1043</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846353930354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1044</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1045</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1046</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130313031303030303C2F496E70757441504455 3E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1047</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1048</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1049</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1050</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1051</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646
2D54432D5365737373696F6E49442D328100821C536D617274636172645369646
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1052</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1053</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1054</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1055</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1056</refId>
  <annexAId>62</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the A00000041000020001 application as
      local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1057</refId>
  <annexAId>63</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A000000410000010001
application as local DIDs were authenticated
      during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>1058</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C2000000000097F8F5905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1059</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1060</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1061</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1062</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1063</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1064</refId>
  <annexAId>63</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>1065</refId>
  <annexAId>63</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1066</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1067</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
```

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```
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1068</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1069</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1070</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1071</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1072</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1073</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>1074</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1075</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1076</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E3030 3C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1077</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1078</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1079</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1080</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1081</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1082</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1083</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1084</refId>
  <annexAId>63</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the A00000041000010001 application as
     local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1085</refId>
  <annexAId>64</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Connect to the A00000041000020001 card
application. The following set of actions shall
     test the post-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756204946442052656164657220534E323433324134840101
8509A0000004100002000181010C</encodedData>
</invAspect>
<invAspect>
  <refId>1086</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1087</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>1088</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1089</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1090</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
```

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202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1091</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1092</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1093</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
```

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```
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1094</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1095</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1096</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1097</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>
```

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```
      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1098</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1099</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D536573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D696533A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303035303746384635373443413134414130343541313142383031393638373
34373437303341324632463733364436313732373436333631373236343244363836463733373
34324536453635373438333138343236433735363532303439343634343230353236353631363
34363537323230353334453332333433333332343133343834303130313835303941303030303
03034313030303032303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1100</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1101</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1102</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303032303030 31
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1103</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1104</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100002000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>1105</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1106</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1107</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130303832303634313
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1108</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1109</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369 64652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1110</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130303832303634313530343935463446344639303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1111</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1112</refId>
  <annexAId>64</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Connect to
the A00000041000020001 card application.
     The following set of actions shall test the post-
conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1113</refId>
  <annexAId>65</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Authenticate the Internal DID.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>1114</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1115</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303144374639303142313941313137383030313030413130323833030303832
3043343936453734363537323645363136433433336353733734383330303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1116</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1117</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1118</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
```

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```
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313030413130323830303038323043343936453734363537323645 36
31364334333635373237343833303030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1119</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1120</refId>
  <annexAId>65</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800100A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>1121</refId>
  <annexAId>65</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415 0495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1122</refId>
  <annexAId>65</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1123</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E374639303143304341313032383030303832303634313530
343935463446344239303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1124</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1125</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1126</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433034413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1127</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1128</refId>
  <annexAId>65</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition:
Authenticate the Internal DID.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1129</refId>
  <annexAId>66</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Post-condition: Authenticate the Management external
DID.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>1130</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800100A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1131</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303231374639303142314441313142383030313030413130323830303038
3130344436313645363734353738373436353732364536313643343336353732373438333030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1132</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1133</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1134</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E733A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616D6C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032313746393031
42314441313142383030313030413130323830303038323130344436313645363734353738 37
34363537323645363136433433336353732373438333030303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1135</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800100A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1136</refId>
  <annexAId>66</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800100A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>1137</refId>
  <annexAId>66</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1138</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1139</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135 30
```

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```
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1140</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1141</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1142</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1143</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1144</refId>
  <annexAId>66</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition:
Authenticate the Management external DID.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1145</refId>
  <annexAId>67</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the DID list
     contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>1146</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1147</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746393031313130354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1148</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1149</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1150</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
313035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1151</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1152</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>1153</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457787465726E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457787465726E616C43657274820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1154</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
42657461457787465726E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457787465726E616C43657274820641504 95F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1155</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019EA182019AA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201563C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E37463930313235384131344541303443314135343334
383530343934453141304334393645373436353732364536313643433365373237343141313
303432363537343631343537383734363537323645363136433433365373237343141313034
443631364536373435373837343635373236453631364334333635373237343141313134343136
433730363836313435373837343635373236453631364334333635373237343823036343135
303439354634463442393030303C2F4F7574075744150445 3E0A3C2F6E73323A5472616E73
6D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1156</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1157</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1158</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F757470757441504455 3E3746393031323538413134
4541303443314130353433343835303439344531413043343936453734363537323645363136
4334333635373237343141313034323635373436313435373837343635373236453631364334
3336353732373431413130344436313645363734353738373436353732364536313643343336
3537323734314131313431364337303638363134353738373436353732364536313643343336
3537323734383230363431353034393546344634423930303 03C2F4F7574707574415044553E
0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1159</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
426574614578746572 6E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657 26E616C4365727482064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1160</refId>
  <annexAId>67</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000020001 card application DID
      list. Ensure that the DID list contains the expected
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A104265746145787465726E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657 26E616C4365727482064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1161</refId>
  <annexAId>68</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the 2-DS1 data set.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105322D445331</encodedData>
</invAspect>
<invAspect>
  <refId>1162</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105322D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1163</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A323437323732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031303746384637353043413130413830303130303831303533332324434
353333313030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>1164</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1165</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1166</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E7075744150445553303043323030303030303030303130374638463 7
353043413130413830303130303831303533323244343435333331303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1167</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

     <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105322D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1168</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105322D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1169</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1170</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1171</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463736303838323036343135303439354634463442393030
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1172</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1173</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172743617 2642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1174</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1175</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1176</refId>
  <annexAId>68</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
2-DS1 data set.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1177</refId>
  <annexAId>69</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 2-DS1-DSI contents. Ensure that
the contents has been updated.</description>
  <encodedData
type="xs:hexBinary">7F900111A10F800100810A322D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>1178</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A322D4453312D445349310000</I
nputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1179</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A057801C436C69656E74417070536964652D
```

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```
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303031353746393030303131314131304638303031303038313041333232443434
353333313244434343533343933313030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1180</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1181</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1182</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031353746393030
313131413130463830303130303831304133323244343435333331324434343533334393331 30
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>1183</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A322D4453312D445349310000</I
nputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1184</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F900111A10F800100810A322D4453312D4453493100</
encodedData>
</invAspect>
<invAspect>
  <refId>1185</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90023EA134803249443A2031323334353B20436C6173733A20433B
20526573747269637465F6E733A204E6F6E653B20506F696E74733A203982064150495F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>1186</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F90023EA134803249443A2031323334353B20436C6173733A20433B205265
737472696374696F6E733A204E6F6E653B20506F696E74733A203982064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1187</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182016AA1820166A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201223C6E73323A5472616E736D697526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393030323345413133343830333234393434334132
303331333233333334333533423230343336433631373337333341323034333342323035323
353733373437323639363337343639364636457833341323034453646364536353342323035
303646363936453734373333413230333938323036343135303439354634463442393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</en
codedData>
</invAspect>
<invAspect>
  <refId>1188</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1189</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1190</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820132A1820126808201223C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393030323345413133
343830333234393434334132303331333233333334333533423230343336433613733373333
413230343333423230353236353733373437323639363337343639364636453733334132303
453646364536353342323035303646363936453734373333413230333938323036343135303
393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69
74526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1191</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90023EA134803249443A2031323334353B20436C6173733A20433B205265
737472696374696F6E733A204E6F6E653B20506F696E74733A203982064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1192</refId>
  <annexAId>69</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 2-DS1-DSI1 contents. Ensure that the
     contents has been updated.</description>
  <encodedData
type="xs:hexBinary">7F90023EA134803249443A2031323334353B20436C6173733A20433B
205265737472696374696F6E733A204E6F6E653B20506F696E74733A203982064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>1193</refId>
  <annexAId>70</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 2-DS1-DSI2 contents. Ensure that
the contents is as expected.</description>
  <encodedData
type="xs:hexBinary">7F900111A10F800100810A322D4453312D44534932</encodedData>
</invAspect>
<invAspect>
  <refId>1194</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A322D4453312D445349320000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1195</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E657482C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313537463930303131314131304638303031303038313041333232443434
3533333132443434353334393332303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1196</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1197</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1198</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E733A3A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616564 6C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031353746393030
3131314131304638303031303038313041333232443434353333313244434345333439333230
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>1199</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A322D4453312D445349320000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1200</refId>
  <annexAId>70</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F900111A10F800100810A322D4453312D4453493200</
encodedData>
</invAspect>
<invAspect>
  <refId>1201</refId>
  <annexAId>70</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F900248A13E803C49443A2033343536373B20436C6173733A20423B
20526573747269637469696F6E733A206D617820313220706572736F6E3B20506F696E74733A20
313282064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1202</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F900248A13E803C49443A2033343536373B20436C6173733A20423B205265
737472696374696F6E733A206D6178203132207065727 6F6E3B20506F696E74733A20313282
064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1203</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182017EA182017AA03E801C536D617274636172645369646 52D
```

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```
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818201363C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E37463930303234384131334538303343343934343341 32
303333333433353336333733422330343336433631373337333341323034323342323035323 6
353733373437323639363337343639364636453733334132303644363137383232033313332 32
303730363537323733364636453342323035303646363936453734373333413230333133323 8
323036343135303439354634463442393030303C2F4F757470757441504455 3E0A3C2F6E7332
3A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1204</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1205</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D32811968747470742F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1206</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820146A182013A808201363C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393030323438413133
4538303343343934343341323033333333433353336333733422330343336433631373337333
4132303432334232303532363537333734373236393633373436393646364537333341323036
4436313738323033313332323037303635373237333646364533422303530364636393645373
3437333341323033313332383230363431353034393546344634423930303 03C2F4F75747075
74415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>1207</refId>
```


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```
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F900248A13E803C49443A2033343536373B20436C6173733A20423B205265
737472696374696F6E733A206D617820313220706572736F6E3B20506F696E74733A20313282
064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1208</refId>
  <annexAId>70</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 2-DS1-DSI2 contents. Ensure that the
     contents is as expected.</description>
  <encodedData
type="xs:hexBinary">7F900248A13E803C49443A2033343536373B20436C6173733A20423B
205265737472696374696F6E733A206D617820313220706572736F6E3B20506F696E74733A20
313282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1209</refId>
  <annexAId>71</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A00000041000020001 card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>1210</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>

        <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1211</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846353930354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1212</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1213</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1214</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1215</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A10380010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1216</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>1217</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1218</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1219</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D6172746361726453696465 2D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1220</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1221</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1222</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1223</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1224</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1225</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>1226</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1227</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1228</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1229</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
```

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```
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1230</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1231</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D28100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281818036E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1232</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1233</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1234</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A4469736 36F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1235</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1236</refId>
  <annexAId>71</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the A00000041000020001 card
     application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1237</refId>
  <annexAId>72</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1238</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1239</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E74657874207 86D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A323437323732A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>1240</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1241</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1242</refId>
```

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```
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1243</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1244</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1245</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646465 2443
2D53657373696F6E49442D328100821C536D617274636172645369646465 2D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370 6F6E73652078
```

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```
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E74657874526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1246</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1247</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1248</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1249</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1250</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>1251</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1252</refId>
  <annexAId>72</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
This shall automatically invoke
     ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1253</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the trusted channel on the smartcard host
side.</description>
  <encodedData
type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>1254</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Close the trusted channel on the smartcard host
side.</description>
```

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```
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

B.7 Data manipulation - global authentication

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements the ENVELOPE APDU) as described in Annex A.1.7, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.7.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>CALL</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
    call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
          client application side.</description>
      <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
    </invAspect>
    <invAspect>
      <refId>2</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>RETURN</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
    call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
          client application side.</description>
      <encodedData
    type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
    657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
    49442D3182064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>3</refId>
      <annexAId>1</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>initialize</method>
      <invocationType>CALL</invocationType>
      <description>Initialise the SAL Proxy.</description>
      <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the A00000041000010001 card
application. The following set of actions shall
     test the A00000041000010001 card application pre-
conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A000000410000100018101 00</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
```

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```
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A33343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A2020202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A2020202020202020203C5365
7373696F6E4964656E746966965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E820641504957F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
```


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```
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787 4526573706F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787 4526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787452657370F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContextResponse>

       <Result>IFD_OK</Result>

       <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
```

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54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy

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```
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

       <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D22752726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303035303746384635373443413134414130343541313142383031393638373
34373437303341324632463733364363137323734363336313732363432443638364637333
34324536453635373438333138343236433735363532303439343634343230353236353631363
34363537323230353334453332333433333332343133334383430313031383530394130303030
30303431303030303031303031383130313030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244363836463733373432453645363535373438333138
343236433735363532303439343634343230353236353630363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303031303030 31
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100001000181010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332
41348401018509A000000410000100018101 0000</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384635383044413130333830303130303832303634 31
353034393546344634423930303 03C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the A00000041000010001 card application. The
     following set of actions shall test the A00000041000010001 card
application pre-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
     with management permissions to view all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303144374639303142313941313137383030313030413130323830303038 32
3043343936453734363537323645363136433433363537323734383330303030303303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303144374639303 1
42313941313137383030313030413130323830303038323043343936453734363537323645 36
313643343336353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800100A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
       </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6966633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 3E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574075744150445 3E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423933030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the InternalCert DID. This, combined with
      MangExternalCert, shall provide us with management permissions to view
all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the MangExternalCert DID. This
shall provide us with management permissions
      to view all of the smart card, except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>64</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800100A10280008210 4D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369646 52D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303032313746393031423144413131423830303130304131303238303030383832
313034443631364536373435373837343635373236453631364334333635373237343833303030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A2343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303023137463930 31
42314441313142383030313030413130323830303038323130344436313645363734353738 37
34363537323645363136433433363537323734383330303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800100A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800100A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D697 4526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the MangExternalCert DID. This shall
     provide us with management permissions to view all of the smart card,
except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800100A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800100A10280008205434850494E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031363746393031423132413131303830303130304131303238303030303832
303534333438353034393445383330303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031363746393031
423132413131303830303130304131303238303030383230353433343835303439344538333 0
30303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800100A10280008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800100A10280008205434850494E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437233A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E374639303143304341313032383030303832303634313530
343935463446344239303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the CHPIN DID. This shall provide us with
     permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application access rules. Ensure that the ACL is as
     expected.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010081104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010081104341524 42D4150504C494341544
94F4EA20B8209A000000410000100010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369646 52D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323837463930314432344131323238303031303038313130343334313532
343432443431353035303443343 9433343135343439344634454132304238323039413030 30
3030303431303030303130303 03130303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
443234413132323830303130303038313130343334313532343432443431353035303443343934
333431353434393446344541323042383230394130303030303034313030303031303030313 0
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010081104341524 42D4150504C494341544
94F4EA20B8209A00000041000010001 0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010081104341524 42D4150504C494341
54494F4EA20B8209A000000410000 1000100</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265E746961C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D4578656375746541637469 6F6EA203820100302B800A436F6E6E656374696F6E
A11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172
644170706C69636174696F6EA11582134361726441707 06C69636174696F6E4C697374A20381
01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
6100</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B
81194361726441707 06C69636174696F6E456E6453657373696F6EA2038101FF302F800F4361
726441707 06C69636174696F6EA11782154361726441707 06C69636174696F6E437265617465
A2038101FF302F800F436172644170706C69636174696F6EA11782154361726441707 06C6963
6174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6973
6100</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">74A2038201003034800F43617264417070 6C69636174696F6EA11C82
1A436172644170706C69636174696F6E536572766963654 6F6164A2038201003036800F4361
72644170706C69636174696F6EA11E821C43617264417070 6C69636174696F6E536572766963
65437265617465A2038201003036800F43617264417070 6C69636174696F6EA11E821C436172
644170706C69636174696F6E536572766963654465 6C657465A2038201003038800F43617264
4170706C69636174696F6EA120821E43617264417070 6C69636174696F6E5365727669636544
65736372696265A2038201003052800 94E616D656444617461A10F830D446174615365744372
6100</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">65617465A234A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FF305280094E616D65
6444617461A10F830D4461746153657444656C657465A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
```

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```
74A10280008201FF3059801444696666657265 6E7469616C4964656E74697479A10B85094449
6100</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">44437265617465A234A432A015800C496E7465726E616C43657274A1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3059801444
6966666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF30819980094E616D656444617461A10D830B446174615365744C6973
74A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800543485049
4EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A80
6100</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">11416C706861457874657265726E616C43657274A1028000820100A01980
1042657461457874657265726E616C43657274A10280008201008206415049 5F4F4B9000</encode
dData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820536A182052AA0820526301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666572656E7469616C4964656E7469
7479A10985074449444C697374A2038101FF3027800F436172644170706C69636174696F6EA1
0F820D4578656375746541637469 6F6EA203820100302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6E
A11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264
4170706C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A203
8101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374
6172745365737369 6F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A
436172644170706C69636174696F6E536572766963654C697374A2038201003034800F436172
644170706C69636174696F6EA11C821A436172644170706C69636174696F6E53657276696365
4C6F6164A2038201003036800F436172644170706C69636174696F6EA11E821C436172644170
706C69636174696F6E536572766963654372656174 65A2038201003036800F43617264417070
6C69636174696F6EA11E821C436172644170706C69636174696F6E536572766963654465C65
7465A2038201003038800F436172644170706C69636174696F6EA120821E436172644170706C
69636174696F6E536572766963654465736372696265A2038201003052800 94E616D65644461
7461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C436572
74A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305280
094E616D656444617461A10F830D4461746153657444656C657465A234A432A015800C496E74
65726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102
80008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A4
32A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E
616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479A1
0B85094449444372656174 65A234A432A015800C496E7465726E616C43657274A10280008201
FFA01980104D616E6745787465726E616C43657274A10280008201FF3059801444696666657265
656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E74
65726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102
80008201FF30819980094E616D656444617461A10D830B4461746153657 44C697374A27DA47B
A015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100A0198010426574614578746572 6E616C4365
7274A1028000820100820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
```


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```
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820B5EA1820B5AA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D3281820B163C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323 3A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031453832303533364131383230353241413038
323035323633303146383030443431373537343638364637323639374136313734363936463 6
454131303938363037343134333443344336393733373441323033383130314646333032363 8
303134343436393636363636353732363536453734363936313643343936343653645373436
393734373941313039383530373434343934343443363937333734413230333831303146463 3
303237383030463433363137323634343137303730364336393633363137343639364636454 1
313046383230443435373836353633373537343635343136373437436393646364541323033 8
323031303033303242383030413433364636453645363536333734363936463636454131313838
313136343336313732363434313730373036433639363336313734363936463636453433364636
453645363536333734413230333831303146463330324438303046343336313732363434313 7
303730364336393633363137343639364636454131313538323133343336313732363434313 7
303730364336393633363137343639364636454433639373337344132303338313031464633
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313732363434313730373036433639363336313734363936463636454343639373336336364636
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333734363936463645413131423831313934333631373236343431373037303643363936333 6
313734363936463645343536453634353336353733373336393646363645413230333831303146
463330246383030463433363137323634343137303730364336393633363137343639364636
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343431373037303643363936333631373436393646364541313137383231353433336313732 3 6
343431373037303643363936333631373436393646364534343635364336353734363541323 0
333831303146463330333038303041343336463645364536353633734363936463645413131
443831314234333831373236343431373037303643363936333631373436393646364535333 7
343631373237343533363537333733363936463645413230333831303146463330333438303 0
463433363137323634343137303730364336393633363137343639364636454131311433832 3 1
413433363137323634343137303730364336393633363137343639364636454353336353732 3 7
363639363336353443363937333734413230333832303130303330333438303046343336313 7
323634343137303730364336393633363137343639364636454131314338323141343336313 7
323634343137303730364336393633363137343639364636455333635373237363639363336
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354132333441343332413031353830304334393645373436353732364536313643343336353 7
```

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3237344131303238303030383230314646413031393830313034443631364536373435373837
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</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
```


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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820B26A1820B1A80820B163C6E73323A5472616E736D697452
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4B3C2F526573756C743E0A202020203C4F7574075744150445 53E3746393031453832303533
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333433363137323634343137303730364336393633363137343639364636454344336393733 7
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333044343436313734363135333635373434343635364336353734363541323334413433324 1
303135383030433439364537343635373236456361364334333635373237344131303238303 0
303832303146464130313938303130344436313645363734353738373436353732364536313 6
433433363537323734413130323830303038323031464633303532383030443431373537343 6
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6145787465726E616C43657274A1028000820100A019801042657461457874 6726E616C4365
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      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application access
      rules. Ensure that the ACL is as expected.</description>
  <encodedData
type="xs:hexBinary">7F901E820536A82052AA0820526301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
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A11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172
644170706C69636174696F6EA11582134361726441707 06C69636174696F6E4C697374A20381
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69636174696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174
696F6EA11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43
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6E5374617745365737369 6F6EA2038101FF3034800F436172644170706C69636174696F6EA1
1C821A4361726441707 06C69636174696F6E536572766963654C697374A2038201003034800F
4361726441707 06C69636174696F6EA11C821A4361726441707 06C69636174696F6E53657276
6963654C6F6164A2038201003036800F4361726441707 06C69636174696F6EA11E821C436172
644170706C69636174696F6E536572766963654372656174 65A2038201003036800F43617264
4170706C69636174696F6EA11E821C4361726441707 06C69636174696F6E5365727669636544
656C657465A2038201003038800F4361726441707 06C69636174696F6EA120821E4361726441
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008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966
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74A10280008201FF30819980094E616D656444617461A10D830B4461746153657 44C697374A2
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6C706861457874657 26E616C43657274A1028000820100A019801042657461457874657 26E61
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</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application DID list. Ensure that the DID list
      contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A1038001 00</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696 4652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696 4652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374639303131303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E

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</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
3130354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
11416C70686145787465726E616C43657274820641504955F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

     <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
42657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A11416C
70686145787465726E616C43657274820641504955F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019EA182019AA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201563C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E37463930313235384131344541303443314130353433334
383530343934453141304334393645373436353732364536313643343336353732373431313
303432363537343631343537383734363537323645363136433433363537323734314131303
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303439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E73
6D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E37463930313235384131343
4541303443314130353433343835303439344531413043343936453734363537323645363136
```

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```
433433363537323734314131303432363537343631343537383734363537323645363136433433
333635373237343141313034443631364536373435373837343635373236453631364334333636
353732373431413131343136433730363836313435373837343635373236453631364334333636
353732373438323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10426574614578746572 6E616C436572741A104D616E6745787465726E616C436572741A11416C706861457874657 26E616C4365727482064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve the A00000041000010001 card application DID
      list. Ensure that the DID list contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A104265746145787465726E616C436572741A104D616E6745787465726E616C436572741A11416C706861457874657 26E616C4365727482064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card application DataSet list. Ensure that the DataSet
      list contains the expected DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
```

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```
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384A5731303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C20000000097F8F7105A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820145A1820141A03E801C536D617274636172645369646 52D
54432D536573736F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181FE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323243413132324130323031413033533132 44
34343533333131413035333132443434353333323141303533331324434343533333331413039
34313633363336353733373334433646363738323036343135303439354634463442393030 30
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F737432E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82010DA18201018081FE3C6E73323A5472616E736D69745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A2020202034F7574707574415044553E3746384637323243413132324
1303230314130353331324434343533333131413035333132443434353333323141303533312
4434343533333331413039343136333633363537333733344336463637383230363431353034
3439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```


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```
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000010001 card application
     DataSet list. Ensure that the DataSet list contains the expected
DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
```

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```
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304138303031303038313035333132443434
35333331303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303831303533331324434343533333130303030 3C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```


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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A800100810531 2D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>9</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Select the 1-DS1
DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 1-DS1 DSI list. Ensure that the DSI list
contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463739303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
```

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```
6C653E0A202020203C496E707574415044553E303043323030303030303030303030393746384637
393035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C52657756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130304331413041333132 44
34343533333132443434353334333133383230363431353034393546344634423930303 03C2F
4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>182</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E374638463741313846313045413O
3043314130413331324434343533333132443434353333439333138323036343353034393546
34463442393030303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS1 DSI
list. Ensure that the DSI list contains the
     expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303130374638463735304341313041383030313030383130353331324434
353333332303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>189</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303038313035333132443434353333323030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E37463846373630383832303634313530343935463446344234393O
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>196</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
1-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 1-DS2 DSI list. Ensure that the DSI list
contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
```

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```
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637393035413130333830303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
    </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
44534932820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820135A1820131A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181EE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384637413234413131414130313831413041333132 44
34343533333232443434353334393331314130413331324434343533333232443434353333439
33323832303634313530343935463446344239303030 3C2F4F7574075744150445 53E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746384637413234413131414130
313831413041333132443434353333323244343435333439333131413041333132443434353
333232443434353333439333238323036343135303439354634463442393030303C2F4F757470
```

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```
7574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS2 DSI
list. Ensure that the DSI list contains the
     expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
44534932820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS3 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445333</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453330000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323A5275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303130374638463735304341313041383030313030383130353331324434
353333333030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4652D54432D53
657373696F6E49442D328100821C536D617274636172645369646 4652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303831303533313244343435333333303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453330000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 3E3746384637363038383230363431353034393546344634423930
30303C2F4F7574075744150445 0E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A3374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463736303838323036343 1
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

     <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
1-DS3 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
```

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```
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 1-DS3 DSI list. Ensure that the DSI list
contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D536573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846373930354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>237</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E7075744150445553303043323030303030303030303393746384637
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D44534933820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D445349
321A0A312D4453332D44534933820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818201063C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746384637413330413132364130323431413041333132
443434353333333244343435333439333131413041333132443434353333333244343435333 4
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```
393332314130413331324434343533333332443434353334393333383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous write.</description>
  <encodedData type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The payload is an XML message. The XML is the
      marshalled response object from the previous IFD response.</description>
  <encodedData type="xs:hexBinary">7F9F2D820116A182010A808201063C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323431323A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746384637413330413132364130323431413041333132443434353333333244434345333439333131413041333132443434353333333244434345333439333231413041333132443434353333333244434345333439333338323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the previous on-card SAL response.</description>
```

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```
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D445349
321A0A312D4453332D44534933820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS3 DSI
list. Ensure that the DSI list contains the
      expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D44534933820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800100810941636365737 34C6F670000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
```

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```
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303134374638463735313041313045383030313030383139393431363336333
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364964652D54432D53
657373696F6E49442D328100821C536D617274636172645364964652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384637
353130413130453830303130303831303934313633363336335373337333443364636373030303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800100810941636365737734C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800100810941636365737734C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>15</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463736303838323036343 1
353034393546344634423933030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F76088206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the expected DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
```

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```
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463739303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C20000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B90
00</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011BA1820117A03E801C536D617274636172645369646 52D
54432D536573736 96F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181D43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6369656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455 3E3746384637413137413130444130304231413039343136 33
3633633533373333443364636373832303634313530343935463446344239303030 3C2F4F75
74707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413137413130444130
3042314130393431363336333633653733373334433646363738323036343135303439354634 46
3442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>16</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
     list contains the expected DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the A00000041000020001 card
application. The following set of actions shall
     test the A00000041000020001 card application pre-
conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A00000041000020001810100000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303035303746384635373443413134414130343541313142383031393638
37343734373033413246324637333644363137323734363336313732363432443638364637
33373243453635363537343833313834323643373536353230343934363434323035323635
36313634363537323230353334453332333433333332343133334383430313031383530394
13030303030303030303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463273 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303032303030 31
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>287</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B80196874747 03A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000200018101000 0</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D697452657370 6F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130313832303634 31
353034393546344634423930303 03C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>17</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463538304441313033383830
303130313832303634313530343935463446344239303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA20380010182064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the A00000041000020001 card application. The
     following set of actions shall test the A00000041000020001 card
application pre-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
     with management permissions to view all of the smartcard.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030314437463930314231394131313738303031303141313032383030303832
3043343936453734363537323645363136433433363537323734383330303030303030303C2F496E
70757441504455 3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>18</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E733A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313031413130323830303038323043343936453734363537323645
3136433433363537323734383330303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

        <SlotHandle>00</SlotHandle>


     <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800101A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445553E37463930314330434131303238303030383230363431353O
343935463446344239303030 3C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>308</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172743617264 2D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the InternalCert DID. This, combined with
      MangExternalCert, shall provide us with management permissions to view
all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the MangExternalCert DID. This
shall provide us with management permissions
      to view all of the smart card, except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303231374639303142314441313142383030313031413130323830303038 32
313034443631364536373435373837343635373236453631364334333635373237343833330 30
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303231374639303 1
42314441313142383030313031413130323830303038323130344436313645363734353738 37
343635373236453631364334333635373237343833330303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>19</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800101A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
       </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6966633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 3E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574075744150445 3E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423934303030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the MangExternalCert DID. This shall
      provide us with management permissions to view all of the smart card,
except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800101A102800082054348504 94E8300</encodedDat
a>
</invAspect>
<invAspect>
```

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```
  <refId>330</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800101A10280008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A323437323733A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031363746393031423132413131303830303130314131303238303030383832
303534333438353034393445383330303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303136374639303 1
42313241313130383030313031413130323830303038323035343334383530343934454383330
30303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800101A10280008205434850494E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800101A10280008205434850494E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>20</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A73636865 6D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D697 4526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>344</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the CHPIN DID. This shall provide us with
     permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A0000041000010001 card
application access rules. Ensure that the ACL
     contains the expected access rules.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000020001</encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A00000041000020001 0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303032383746393031443234413132323830303130313831313034333431353 2
343432443431353035303443343934333431353434393446344541323042383230394130303 0
303030343130303030323030303031303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
443234413132323830303130313831313034333431353234343244343135303503443343934
333431353434393446344541323042383230394130303030303030343130303030323030303130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A00000041000020001 0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010181104341524 42D4150504C494341
54494F4EA20B8209A00000041000020001 00</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441 70706C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441 70706C696361
6100</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E65
6374696F6EA11D811B4361726441707 06C69636174696F6E537461727453657373696F6EA203
8101FF305280094E616D656444617461A10F830D4461746153657444656C657465A234A432A0
15800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C
43657274A10280008201FF305280094E616D656444617461A10F830D4461746153657444656C
657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67
45787465726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B
6100</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">860941434C4D6F64696679A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
5980144469666666572656E7469616C4964656E74697479A10B850944494443726561746 5A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666665726 56E7469616C4964656E74697479
A10B850944494444656C657465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF307E80094E616D6564
6100</encodedData>
```


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```
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">44617461A10D830B44617461536574 4C697374A262A460A015800C49
6E7465726E616C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465
726E616C43657274A1028000820100820 64150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

        <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820379A182036DA0820369301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
7479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6E4A11581343617264417070 6C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B811943617264417070 6C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B811943617264417070 6C69636174696F
6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D656444
617461A10F830D44617461536574437265617465A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3052
80094E616D656444617461A10F830D44617461536574446 5C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
```

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```
0280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469666665
72656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F318207E4A18207E0A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328182079C3C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C52657375 6C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574075744150445 53E37463930314538323033739413138323033364441303 8
32303336393330314638303044343137 3537343638364637323639374136313734363936463 6
45413130393836303734313433344334433639373337344132303338313031464633304363 4
30313434343639363636363635373236353645373436393631364334393634363536453734 36
39373437394131303938353037343434393434344336393733373441323033383130314646 33
30324238303041343336463645645365353633373436393646364541313138383131363433 36
31373236343431373037303643363936333631373436393646364534333646364536453635 36
33373441323033383130314646333032443830304634333631373236343431373037303643 36
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33373336393646364541323033383130314646333035323830303934453631364436353634 34
34363137343631413130463833304434343631373436311353336353734343337323635363137
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34413433324130313538303043343936453734363537323645363136433433363537323734 41
```


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313032383030303832303146464130313938303130344436313645363734353738373436353732363533363537323734413130323830303038323031464641303139383031303444363136453637343537383734363537323645363136433433
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333633364636453645363536333734413230333831303146463330324538303041343336463 6
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333831303146463330333038303041343336463645364536353633734363936463636445413 131
443831314234333631373236343431373037303643363936333631373436393646364535333 7
343631373237343533363537333733363936463645413230333831303146463330353238303 0
393445363136443635363434343631373436314131304638333044343436313734363136353 336
353734343337323635363137343635413233344134333241303135383030433439364537343 6631
353732364536313643343336353732373441313032383030303832303146464130313938303 2
303443631364536373435373837343635373236453631364334333635373237344131303238
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313643343336353732373441313032383030303832303146463330353238303044343137353 7
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453637343537383734363537323645363136433433363537323734413130323830303038323 0
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343635364537343639373437394131304238353039343434393434343337323635363137343 6
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323734413130323830303038323031464641303139383031303444363136453637343537383 7
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333635373237344131303238303030383230314646413534374130304538303035343334383 5
303439344541313032383030303832303146464130313938303130344436313645363734353 7
383734363537323645363136433433336353732373441313032383030303832303146464130 31
413830313134313643373036383631343537383734363537323645363136433433363537323 7
344131303238303030383230313030383230363431353034393546344634423930303033C2F4F
757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820379A182036DA0820369301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
7479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D656444
617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3052
80094E616D656444617461A10F830D4461746153657444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B85094449443726561746 5A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469666665
72656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A10280008201008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000010001 card application access
     rules. Ensure that the ACL contains the expected access
rules.</description>
  <encodedData
type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43
6172644170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D
656444617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF305280094E616D656444617461A10F830D4461746153657444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
```


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```
7274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F646966
79A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578
7465726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74
697479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469
66666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A2
62A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657265726E616C43657274A1028000820100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the DID list
     contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
```

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```
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374639303131303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
3130354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
      <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
    </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657265726E616C43657274820641504950495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
42657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657265726E616C43657274820641504950495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>22</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019EA182019AA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201563C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323731A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031323538413134454130344331413035343334
383530343934453141304334393645373436353732364536313643343336353732373431413
303432363537343631343537383734363537323645363136433433363537323734314131303
443631364536373435373837343635373236453631364334333635373237343141313034443
631364536373435373837343635373236453631364334333635373237343141313131343136433
730363836313435373837343635373236453631364334333635373237343832303634313530343
934634463442393030303C2F4F7574075744150445 3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
```

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```
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445 53E3746393031323538413134
4541303443314130353433343835303439344531413043343936453734363537323645363136
4334333635373237343141313034323635373436313435373837343635373236453631364334
3336353732373431413130344436313645363734353738373436353732364536313643343336
3537323734314131313431364337303638363134353738373436353732364536313643343336
3537323734383230363431353034393546344634423930303 03C2F4F7574075744150445 53E
0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
4265746145787465726E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657 26E616C436572748206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application DID
     list. Ensure that the DID list contains the expected
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A104265746145787465726E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657 26E616C436572748206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DataSet list. Ensure that the DataSet
     list contains the expected DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637313035413130333830303130313030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
313035413130333830303130313031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C20000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
```

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```
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820137A1820133A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323235413131424130313931413035333232 44
34343533333131413035333232443434353333323141303934313633363336335373337333 443
3646363738323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FEA181F38081F03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D612253E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637323235413131424130
313931413035333232443434353533313141303533332244343435333332314130393431363
3633363537333733334433646363738323036343135303439354634463442393030303C2F4F75
747075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application
     DataSet list. Ensure that the DataSet list contains the expected
DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS1 data set.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031303746384637353043413130413830303130313831303533323244343434
35333331303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130313831303533323244343435333331303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105322D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
```

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```
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
2-DS1 data set.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846373930354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743F></encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D
44534932820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
```

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```
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820135A1820131A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181EE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C536573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455E3746384637413234413131414130313831413041333232 44
343435333331324434343533343933313141304133323244343435333331324434343533333
3332383230363431353034393546344634423930303 3C2F4F757470757441504455 3E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3743384637413234413131414130
3138314130413332324434343535333313244343435333433331314130413332324434343533
3331324434343533343933323832303634313530343935463446344239303030 3C2F4F757470
7574415044553E0A3C2F6E73323A5472616E736D697452657370 6F6E73653E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 2-DS1 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D
44534932820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445332</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304138303031303138313035333232443434
35333332303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>26</annexAId>
```


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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303030313831303533332324434343533333230303030 3C2F496E707574
415044553E0A3C2F6E733A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>438</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105322D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
```

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2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 53E3746384637363038383230363431353034393546344634423930
30303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746384637363038383230363431
353034393546344634423930303030 3C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
2-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463739303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D44534931820641504 95F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453322D44534931820641504 95F4F4B9000</
OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130304331413041333232 44
34343533333232443434353334393331383230363431353034393546344634423930303 03C2F
4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413138413130454130
3043314130413332324434343435333332324434343533343933313832303634313530343934
34463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B9000</
OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 2-DS2 DSI list. Ensure that the DSI list
      contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E80010181094163636573734C6F67</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>464</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800101810941636573734C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369646652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313437463846373531304131304538303031303138313039343136333633
3635373337383443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D697433E</encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384637
353130413130453830303130313138313039343136333633363537333733443364636373030 30
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800101810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800101810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 53E3746384637363038383230363431353034393546344634423930
30303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>28</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A73636865D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463736303838323036343 1
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>478</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the expected DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A1038001 01</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
```

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```
303030303030303030393746384637393035413130333830303130313030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
    </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B90
00</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
    <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011BA1820117A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413137413130444130304231413039343136333
363336353733373334433646363738323036343135303439354634463442393030303C2F4F75
74707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413137413130444130
304231413039343136333633363363537333733344336463637383230363431353034393546
3442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>493</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
     list contains the expected DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the A00000041000020001 card
application as local DIDs were authenticated
     during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743F></encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>30</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463541303838323036343431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000020001 card application
     as local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Pre-condition: Disconnect from the A00000041000010001 card
application as local DIDs were authenticated
      during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384635393035413130333830303130303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646
2D5365737369F6E49442D328100821C536D617274636172645369646
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323A2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463541303838323036343 1
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>31</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2757726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61233E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>534</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>535</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A73368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000010001 card application
     as local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000020001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
```

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```
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>543</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726 4536964652D54432D53
657373696F6E49442D328100821C536D6172746361726 4536964652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>544</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>
```

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```
        <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

        <Slot>1</Slot>

        <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>546</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>549</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>550</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A2020202020 3C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>551</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030353037463846353734434131344141303435413131423830313936383 7
343734373033413246324637333643631373237343633363137323634324436383646373337
343245364536353734383331383432364337353635323034393436343432303532363536313 6
343635373232303533344533233343333333234313334383430313031383530394130303030
303034313030303032303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413131344141303435413131314238303139363837343734373033413246324632463733
364436313732373436333631373236343244363836463733373432453645363373438333138
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133334383430313031383530394130303030303034313030303032303030313
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F737432E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000041000020001810100000 0</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
```

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```
74636172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332
41348401018509A0000004100002000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130303832303634 31
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>563</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA18C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746384635383044413130333830
303130303832303634313530343935463446344639303030 3C2F4F757470757441504455 0A
3C2F6E73323A5472616E736D697452657 06F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>566</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the
A0000004100002000l application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the InternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>568</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
```

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```
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031443746393031423139413131373830303130304131303230383030303832
304334393645373436353732364536313643343336353732373438333030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
423139413131373830303130304131303238303030383230433439364537343635373236453
313643343536353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800100A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
```

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```
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446346423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
```

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```
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate as the card holder (CHPIN).</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800100A102800082054348504 94E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>584</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800100A10280008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>585</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D22757261E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313637463930314231324131313138303031303041313032383030303832
3035343334383530343934453833303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>586</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>587</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031363746393031
42313241313130383030313030413130323830303038323035343334383530343934454383330
30303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800100A1028000820543485049 4E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800100A1028000820543485049 4E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303033C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate as the card
holder (CHPIN).</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>599</refId>
```

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```
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Select the Access Log data set.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800100810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303134374638463735313041313045383030313030383130393431363336333
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>603</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504553E3030433230303030303030303031343746384637
353130413130453830303130303831303934313633363336335373337333443364636373030
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800100810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800100810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
```

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```
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E73652078 6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
373237 3A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Select the Access Log data
set.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to read the Access Log DSI. This attempt shall fail
as the global AccessLog DID has not yet been
      authenticated.</description>
  <encodedData
type="xs:hexBinary">7F900110A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>616</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F900110A10E800100810941636365737 34C6F670000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303134374639303031313041313045383030313030383130393431363336 33
3635733373334433646363703030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746393030
3131304131304538303031303038313039343136333633633635373337333443364636373030303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>36</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F900110A10E800100810941636365737 34C6F6700 00</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F900110A10E800100810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90022682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494 5449000</encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F90022682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494545449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E37463930303232363832323434313530343935463533343 5
343335353532343935343539354634333446344534343439353434393446344535463446345 3
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>627</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>628</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746393030323236383232343434
313530343935463533343534333535353234393534353935463433344634453434343935343434
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>629</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F900226822441504 95F5345435552495459 5F434F4E444954494F4E5F4E4F
545F534154495346494544900 0</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>630</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to read the Access
Log DSI. This attempt shall fail as the
     global AccessLog DID has not yet been authenticated.</description>
  <encodedData
type="xs:hexBinary">7F90022682244150495F5345435552495459 5F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Connect to the Alpha card application.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820199A1820195A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E65748201C436C69656E74417070536964652D54432D53657373696F6E49442D32818201383C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303034443746384635373439413134374130343241313142383031393638373
343734373033413246324637333644363137323734363336313732363432443638364637333
343245364536353734383331383432364337353635323034393436343432303532363536313
343635373232303533344533323334333333323431333438343031303138353036453832383
314331313730323831303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>635</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820148A182013C808201383C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504455 3E303043323030303030303034443746
384635373439413134374130343241313142383031393638373437343730334132463273 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133343834303130313835303645383238381433131373032383130313030
303030303C2F496E70757441504455 3E0A3C2F6E73323A5472616E736D69743E82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>638</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004D7F8F5749A147A042A11B80196874747703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018506E82881C1170281010000</encodedData>
</invAspect>
<invAspect>
  <refId>639</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001018206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

        <OutputAPDU>7F8F580DA1038001018206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455 3E3746384635383044413130333830303130313832303634
353034393546344634423930303 03C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>644</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746384635383044413130333830
303130313832303634313530343935463446344634423930303 03C2F4F757470757441504455 3E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>646</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the Alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>647</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to authenticate the Access Log DID. Fail as it first
required authentication of the global
      InternalCert and CHPIN DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901B16A114800101A1028100820941636365737 34C6F678300</en
codedData>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001A7F901B16A114800101A1028100820941636365737 34C6F678
3000000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820132A182012EA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D23C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031413746393031423136413131343830303130314131303238313030383832
303934313633363336353733373334433646363738333030303030303C2F496E707574415044
553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E0A181D58081D23C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
```

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```
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031413746393031
42313641313134383030313031413130323831303038323039343136333633363533733733334
43364636373833303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D
69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001A7F901B16A11480010A10281008209416363657373 4C6F678
3000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001A7F901B16A114800101A10281008209416363657373 4C6F
67830000</encodedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C2682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544 9000</encodedData>
</invAspect>
<invAspect>
  <refId>656</refId>
```

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```
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901C2682244150495F53454355524954595F434F4E44495449
545F534154495346494549449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>657</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646
54432D53657373696F6E49442D328100821C536D617274636172645369646
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C536573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445553E3746393031433236383232343431353034393546353334
343335353532343935343539546343334463445343434393534343934463445354634453446
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>658</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>660</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3463930314332363832323434
313530343935463533343534333535353234393534353935463433344634453434343953434
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901C2682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346945449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to authenticate
the Access Log DID. Fail as it first required
     authentication of the global InternalCert and CHPIN DIDs.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901C2682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to authenticate the local Internal DID. This request
shall fail as the request attempts to
     authenticate in the local scope. DIDs in the Alpha card application can
only be authenticated in the global scope.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>664</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>665</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031443746393031423139413131313738303031303141313032383030303832
```

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```
3043343936453734363537323645363136433433363537323734383330303030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>666</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>667</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313031413130323830303038323043343936453734363537323645 36
313643343336353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>670</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800101A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C1982174150495F494E434F52524543545F504152414D455445
529000</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901C1982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
```

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```
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011FA182011BA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D83C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433139383231373431353034393546343934
343334463532353234353433353435463530343135323431344434353534343535323930303030
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433139383231373431
```

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```
353034393546343934453433344635323532343534333534354635303431353234313444343535343435353532393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901C1982174150495F494E434F52524543545F504152414D455445529000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to authenticate the local Internal DID. This request shall
      fail as the request attempts to authenticate in the local scope. DIDs in the Alpha card application can only be
      authenticated in the global scope.</description>
  <encodedData
type="xs:hexBinary">7F901C1982174150495F494E434F52524543545F504152414D45544552</encodedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the global Internal DID. This request shall now succeed as the scope is global.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028100820C496E7465726E616C4365727483100</encodedData>
</invAspect>
<invAspect>
  <refId>680</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028100820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>681</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874747703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E744170705369646 52D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746568683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031443746393031423139413131373830303130314131303238313030383832
3043343936453734363537323645363136433433336353732373438333030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>682</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>683</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>684</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303144374639303 1
42313941313137383030313031413130323831303038323043343936453734353732364536
313643343336353732373438333030303030303C2F496E70757441504455 3E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028100820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>686</refId>
  <annexAId>40</annexAId>
  <layer>ICI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800101A1028100820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
```

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```
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>689</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>691</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D69745265737065E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD Layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the global
Internal DID. This request shall now succeed
      as the scope is global.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate as the global card holder (CHPIN)
DID.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800101A10281008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>696</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800101A10281008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>697</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031363746393031423132413131303830303130314131303238313030383
2
```

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```
3035343334383530343934453833303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>698</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>699</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>700</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031363746393031
42313241313130383030313031413130323831303038323035343334383530343934454538333 0
30303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>701</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000167F901B12A110800101A10281008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>702</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800101A10281008205434850494E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>703</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>704</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>705</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>709</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate as the global
card holder (CHPIN) DID.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the Access Log DID. This action shall now
succeed.</description>
  <encodedData
type="xs:hexBinary">7F901B16A114800101A10281008209416363657373 4C6F678300</en
codedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000001A7F901B16A114800101A10281008209416363657373 4C6F678
3000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820132A182012EA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D23C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031413746393031423136413131343830303130314131303238313030383832
303934313633363336353733373334433646363738333030303030303C2F496E707574415044
553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>715</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>716</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81E0A181D58081D23C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031413746393031
42313641313134383030313031413130323831303038323039343136333633363533733373334
43364636373833303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D
69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>717</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001A7F901B16A114800101A10281008209416363657373 4C6F678
3000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>718</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001A7F901B16A114800101A10281008209416363657373 4C6F
67830000</encodedData>
</invAspect>
<invAspect>
  <refId>719</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008 2064150495F4F4B9000</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>720</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>721</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C5265573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 3E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574075744150445 3E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>722</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>723</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>724</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3A4393031433043413130323830
3030383230363431353034393546344634423934303303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E820641050495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>725</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the Access
Log DID. This action shall now succeed.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>727</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect again to the A00000041000020001
application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A000000410000200018101000</encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303035303746384635373443413134414130343541313142383031393638373437343730334132463246373336443631373237343633363137323634324436383646373337343245364536353734383331383432364337353635323034393436343432303532363536313634363537323230353334453332333433333332343133343834303130313835303941303030303030343130303030323030303138313031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>43</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>731</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA1820142808201 3E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D22757 6E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414 1803435413131423830313936383734373437303341324632463733
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133343834303130313835303941303030303030343130303030323030303 1
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>733</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
```

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```
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100002000181010000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>734</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B80196874747703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A0000004100002000181010000</encodedData>
</invAspect>
<invAspect>
  <refId>735</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001028206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>736</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA1038001028206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>737</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130323832303634313
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>738</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>739</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32819687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>740</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130323832303634313530343935463446344634423930303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>741</refId>
```

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```
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect again to the
A00000041000020001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the InternalCert. Ensure that the same local DID
in the same card application has different
     states for different connections. The disconnect below shall test
this.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800102A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000001D7F901B19A117800102A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>745</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D227126E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D6122E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031443746393031423139413131383830303130324131303238303030383832
304334393645373436537323645363136433433363537323734383330303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>746</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>747</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>748</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313032413130323830303038323043343936453734363537323645 36
313643343336353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800102A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800102A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>751</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>752</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>753</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A20202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>754</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>755</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>756</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423933030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>757</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>758</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert. Ensure that the same local DID in the
     same card application has different states for different connections.
The disconnect below shall test this.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA1028000820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>759</refId>
```

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```
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate as the card holder (CHPIN).</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800102A1028000820543485049 4E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>760</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800102A1028000820543485049 4E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>761</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313637463930314231324131313038303031303241313032383030303832
3035343334383530343934453833303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>763</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504455E303043323030303030303031363746393031
42313241313130383030313032413130323830303038323035343334383530343934454383330
30303030303C2F496E7075744150445E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800102A102800082054348504 94E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>45</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800102A102800082054348504 94E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>767</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
```

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```
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>770</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>771</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>772</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>773</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
```

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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>774</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate as the card
holder (CHPIN).</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>775</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Select the Access Log data set.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800102810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>776</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800102810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>777</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031343746384637353130413130453830303130323831303934313633363
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>778</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>779</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D32810082105536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384637
353130413130453830303130323831303934313633363336335373337333443364636373030303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>781</refId>
  <annexAId>46</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800102810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800102810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
       </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>787</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>788</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463736303838323036343 1
353034393546344634423933030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>789</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>790</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Select the Access Log data
set.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>791</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Read the Access Log DSI. The authentication of the global
AccessLog DID in another connection shall
      enable read access. Ensure that new connections after a global DID
authentication can see the global DID state.</description>
  <encodedData
type="xs:hexBinary">7F900110A10E800102810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>792</refId>
  <annexAId>47</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F900110A10E800102810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>793</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313437463930303131304131304538303031303238313039343136333633
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>794</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>795</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746393030
3131304131304538303031303238313039343136333633363537333733443364636373030303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F900110A10E800102810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>798</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F900110A10E800102810941636365737 34C6F6700</en
codedData>
</invAspect>
```

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```
<invAspect>
  <refId>799</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90020CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>800</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90020CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393030323043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>802</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>803</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>804</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455453E3746393030323043413130323830
3030383230363431353034393546344634423933030303C2F4F757470757441504455453E0A3C2F
6E73323A5472616E736D697452657370F6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>805</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90020CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>806</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Read the Access Log DSI.
The authentication of the global AccessLog
     DID in another connection shall enable read access. Ensure that new
connections after a global DID authentication can
     see the global DID state.</description>
  <encodedData
type="xs:hexBinary">7F90020CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>807</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the A00000041000020001 card application.
Ensure that this disconnect only sets the DID
     states to false for this connection. Also see the AccessLog DSI read
below.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800102</encodedData>
</invAspect>
<invAspect>
  <refId>808</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001020000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>809</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
```

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```
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463539303541313033383030313032303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>810</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>811</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>812</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130323030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>813</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
      <InputAPDU>00C200000000097F8F5905A1038001020000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>814</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010200</encodedData>
</invAspect>
<invAspect>
  <refId>815</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>816</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>817</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>818</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>819</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328199687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>820</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303030C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>821</refId>
  <annexAId>48</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>822</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the
A00000041000020001 card application. Ensure that
     this disconnect only sets the DID states to false for this connection.
Also see the AccessLog DSI read below.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>823</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Read the Access Log DSI on the Card Holder connection. The
authentication of the global AccessLog DID in
     another connection shall enable read access. Ensure that connections
before a global DID authentication can see the
     global DID state. Ensure that, when there are two connections to the
same card application, that a disconnect to one
     connection does not affect the DID states of the other
connection.</description>
  <encodedData
type="xs:hexBinary">7F900110A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>824</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F900110A10E800100810941636365737 34C6F670000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>825</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F36D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303134374639303031313041313045383030313030383130393431363336 33
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>826</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>827</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>828</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746393030
3131304131304538303031303038313039343136333633363537333733344336463637303030
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>829</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F900110A10E800100810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>830</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F900110A10E800100810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>831</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90020CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>832</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90020CA10280008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>833</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393030323043413130323830303038323036343135 30
343935463A4634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>834</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>835</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>836</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A737464A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393030323043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>837</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90020CA10280008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>838</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Read the Access Log DSI on
the Card Holder connection. The
     authentication of the global AccessLog DID in another connection shall
enable read access. Ensure that connections
     before a global DID authentication can see the global DID state. Ensure
that, when there are two connections to the
```

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```
      same card application, that a disconnect to one connection does not
affect the DID states of the other connection.</description>
  <encodedData
type="xs:hexBinary">7F90020CA10280008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>839</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the Alpha card application. This shall set
the AccessLog log state to false.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>840</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C2000000097F8F5905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>841</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463539303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>842</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>843</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>844</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>845</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>846</refId>
  <annexAId>50</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>847</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>848</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>849</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
```

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```
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>850</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>851</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>852</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>853</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>854</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the Alpha
card application. This shall set the
      AccessLog log state to false.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>855</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to read the Access Log DSI. This attempt shall fail
as the global AccessLog DID is no longer
      authenticated. Ensure that the state of global DIDs are set to false
when the connection in which they were
      authenticate are disconnected.</description>
  <encodedData
type="xs:hexBinary">7F900110A10E80010081094163636573734C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>856</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F900110A10E80010081094163636573734C6F670000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>857</refId>
  <annexAId>51</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031343746393030313130413130453830303130303831303934313633363 3
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>858</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>859</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>860</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746393030
313130413130453830303130303831303934313633363336335373337333443364636373030303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>861</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F900110A10E800100810941636573734C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>862</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F900110A10E800100810941636573734C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>863</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90022682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494945449000</encodedData>
</invAspect>
<invAspect>
  <refId>864</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90022682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544944900 0</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>865</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03F801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746393030323236383232343431353034393546355333435
343335353532343935343539354634333446344534343439353434393446344535463446
353435463533343135343439353334363439343534343930303 03C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>866</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>867</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>868</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574075744150445553E3746393036323632363832323434
313530343935463533343534333535353234393534353935463433344634534343439353434
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>869</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F9002268224415049 5F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544 9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>870</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to read the Access
Log DSI. This attempt shall fail as the
     global AccessLog DID is no longer authenticated. Ensure that the state
of global DIDs are set to false when the
     connection in which they were authenticate are
disconnected.</description>
  <encodedData
type="xs:hexBinary">7F9002268224415049 5F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>871</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the A00000041000010001 card application as
local DIDs were authenticated during this
     connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>872</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A103800100000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>873</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463539303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>874</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>875</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>876</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>877</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>878</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>879</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>880</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>881</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>882</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>883</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>884</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>885</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
        <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>886</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>887</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>888</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>889</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```


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```
</invAspect>
<invAspect>
  <refId>890</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>891</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>892</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>893</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
```

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```
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>894</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>895</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>896</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
3234373237 3A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>897</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
```


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```
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>898</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the
A00000041000010001 card application as local DIDs
      were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>899</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Connect to the Alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>900</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

         <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>901</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>902</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>903</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>904</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>905</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>906</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>907</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>908</refId>
```

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```
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>909</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>910</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A73636865 61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>911</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>912</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B80196874747703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>913</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820199A1820195A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201383C
6E73323A5472616E73616D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A323437323373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030344437463846353734394131343741303432413131423830313936383737
343734373038413246324637333644363137323734363336313732363432443638364637333
343245364536353734383331383432364337353635323034393436343432303532363536313
343635373232303533344533323334333333323431333438343031303138353036453832383
3143313137303238313031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>914</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>915</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>916</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820148A182013C808201383C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303030303444374 6
384635373439413134374130343241313142383031393638073437343730334132463733
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353031363436353732323035333445333 2
333433333332343133334383430313031383530364538323838314331313730323831303130 3
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>917</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>918</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004D7F8F5749A147A042A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018506E82881C1170281010000</encodedData>
</invAspect>
<invAspect>
  <refId>919</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>920</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>921</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646452D
54432D53657373696F6E49442D328100821C536D617274636172645369646452D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
```

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```
20203C4F757470757441504455 3E3746384635383044413130333830303130303832303634313
5303439354634463442393030303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>922</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>923</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D536573736F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>924</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746384635383044413130333830
303130303832303634313530343935463446344639303030 3C2F4F757470757441504455 3E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>925</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>926</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Connect to
the Alpha card application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>927</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the AccessLog DID. Ensure the DID
state is false.</description>
  <encodedData
type="xs:hexBinary">7F901514A112800100A10281008209416363657373 4C6F67</encode
dData>
</invAspect>
<invAspect>
  <refId>928</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000187F901514A112800100A10281008209416363657373 4C6F670
000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>929</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012EA182012AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031383746393031353134413131313238303031303041313032383130303832
303934313633363336353733373334433646363730303030303C2F496E707574415044553E0A3C
2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>930</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>931</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821D536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>932</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81DCA181D18081CE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031383746393031
353134413131313238303031303041313032383130303832303934313633363336333633733373334
433646363730303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>933</refId>
  <annexAId>54</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000187F901514A112800100A10281008209416363657373 4C6F670
000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>934</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000187F901514A112800100A10281008209416363657373 4C6F
6700</encodedData>
</invAspect>
<invAspect>
  <refId>935</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901629A11FA01D80094163636573734C6F6781072881C117030003
A2028100830100840082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>936</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901629A11FA01D80094163636573734C6F6781072881C117030003A20281
008301008400820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>937</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182013FA182013BA03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181F83C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4944455F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746393031363239413131314641303144383030393431363
3633363537333733344336463637383130373238383143313137303330303033413230323831
3030383330313030383430303832303634313530343935463446344239303030 3C2F4F757470
7574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>938</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>939</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>940</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820106A181FB8081F83C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746393031363239413131314641
3031443830303934313633363336353733373334433646363738313037323838314331313730
333030303341323032383130303833303130303834303038323036343135303439354634463434
42393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F
6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>941</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901629A11FA01D80094163636573734C6F6781072881C117030003A20281
008301008400820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>942</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the AccessLog DID. Ensure the DID state is
     false.</description>
  <encodedData
type="xs:hexBinary">7F901629A11FA01D80094163636573734C6F6781072881C117030003
A2028100830100840082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>943</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Post-condition: Disconnect from the Alpha card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>944</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>945</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846353930354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>946</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>947</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>948</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>949</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>950</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>951</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>952</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>953</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>954</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>955</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>956</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455453E374638463541303838323036343131
353034393546344634423930303C2F4F757470757441504455453E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>957</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>958</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>959</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D612E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>960</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>961</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>962</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>963</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>964</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>965</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>966</refId>
```

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```
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>967</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>968</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A73 8656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>969</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>970</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>971</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>972</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>973</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465244
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465244D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>974</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>975</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>976</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>977</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>978</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>979</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645364652D5443
2D53657373696F6E49442D328100821C536D617274636172645364652D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657373706F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563323A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657373706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>980</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>981</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>982</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
```

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```
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>983</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>984</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32821C436C69656E7441707053696465 2D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>985</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>986</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
This shall automatically invoke
     ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>987</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>close</method>
```

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```
      <invocationType>CALL</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData
    type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
    657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
    49442D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>988</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

B.8 Application management - data structure destruction

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements the ENVELOPE APDU) as described in Annex A.1.8, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.8.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>CALL</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
        side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
        client application side.</description>
      <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
    </invAspect>
    <invAspect>
      <refId>2</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>RETURN</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
```

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```
      side is undefined. The channel handle returned by open on the smartcard
side can be different to that returned on the
      client application side.</description>
  <encodedData
type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F52082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the A00000041000010001 card
application. The following set of actions shall
      test the A00000041000010001 card application pre-
conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A20202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A20202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
```

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```
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA8201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D6172746361726 42D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E744170536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
```

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```
       </ChannelHandle>
      </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContextResponse>

       <Result>IFD_OK</Result>

       <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D6172746361726536964652D5443
2D53657373696F6E49442D328100821C536D6172746361726536964652D54432D5365737369
6F6E49442D328181B23C6E3323A45737461626C697368436F6E7465787452657370F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A73636865D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787452657370 6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A20202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E746578744861 6E646C653E30303C
2F436F6E746578744861 6E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>
```

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```
      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D22757264A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E32343332413433C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265164657220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504955F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C756520494644205265616465722053 4E32343332413
48401018509A0000004100001000181010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303035303746384635373443413134414130343541313142383033139363837
34373437303341324632463733364436313732373436333631373236343244363836463733373
34324536453635373438333138343236433735363532303439343634343230353236356313 6
34363537323230353334453332333433333332343133334383430313031383530394130303030
30303431303030303130303031383130313030303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D6128E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463273 3
3644363137323734363336313732363432443638364637333734324536453635373438333138
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133343834303130313835303941303030303030343130303030313038 1
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000100018101000</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA1038001008206415049F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130303832303634 31
353034393546344634423930303 03C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
303130303832303634313530343935463446344639303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the A00000041000010001 card application. The
     following set of actions shall test the A00000041000010001 card
application pre-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
     with management permissions to view all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874747 03A2F2F536D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303144374639303142313941313137383030313030413130323830303038
3243343936453734363537323645363136433433363537323734383330303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031443746393031
42313941313137383030313030413130323830303038323043343936453734363537323645
3136433433363537323734383330303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800100A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135 30
343935463A463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A737464A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the InternalCert DID. This, combined with
     MangExternalCert, shall provide us with management permissions to view
all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the MangExternalCert DID. This
shall provide us with management permissions
      to view all of the smart card, except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000021E7901B1DA11B800100A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303032313746393031423144413131423830303130304131303238303030383232
313034443631364536373435373837343635373236453631364334333635373237343833303030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
```

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```
  <refId>66</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757 4415044553E3030433230303030303030303032313746393031
42314441313142383030313030413130323830303038323130344436313645363734353738 37
34363537323645363136433433363537323734383330303030303030 3C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800100A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800100A10280008204D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the MangExternalCert DID. This shall
     provide us with management permissions to view all of the smart card,
except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800100A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000167F901B12A110800100A10280008205434850494E83000000<
/InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313637463930314231324131313038303031303041313032383030303832
3035343334383530343934453833303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031363746393031
42313241313130383030313030413130323830303038323035343334383530343934393445383330
30303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800100A10280008205434850494E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800100A10280008205434850494E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C536573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 3E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574075744150445 3E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3A4393031433043413130323830
3030383230363431353034393546344634423934303303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E820641050495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the CHPIN DID. This shall provide us with
     permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>6</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application access rules. Ensure that the ACL is as
      expected.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010081104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010081104341524 42D4150504C494341544
94F4EA20B8209A00000041000001000 10000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323837463930314432344131323238303031303038313130343334313532
3434324434313530353034433439343334313534343934463445413230423832303941303030
3030303431303030303130303031303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A2020202036536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504455 3E3030433230303030303030303032383746393031
443234413132323830303130303831313034333431353234343244343135303530344334393 4
333431353434393446344541323042383230394130303030303034313030303031303030313 0
3030303C2F496E70757441504455 3E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010081104341524 2D4150504C494341544
94F4EA20B8209A000000410000100010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>102</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010081104341524 42D4150504C494341
54494F4EA20B8209A000004100001000100</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF302680144469666666572656E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D45786563757465416374696F6EA203820100302B800A436F6E6E656374696F6E
A11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172
644170706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A20381
01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
6100</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B
811943617264417070C69636174696F6E456E6453657373696F6EA2038101FF302F800F4361
72644170706C69636174696F6EA11782154361726441707 06C69636174696F6E437265617465
A2038101FF302F800F436172644170706C69636174696F6EA11782154361726441707 06C6963
6174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6973
6100</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">74A2038201003034800F436172644170706C69636174696F6EA11C82
1A436172644170706C69636174696F6E536572766963654C6F6164A2038201003036800F4361
72644170706C69636174696F6EA11E821C436172644170706C69636174696F6E536572766963
65437265617465A2038201003036800F436172644170706C69636174696F6EA11E821C436172
644170706C69636174696F6E536572766963654656C657465A2038201003038800F43617264
4170706C69636174696F6EA120821E436172644170706C69636174696F6E5365727669636544
65736372696265A2038201003052800 94E616D656444617461A10F830D446174615365744372
6100</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
```

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```
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">65617465A234A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FF305280094E616D65
6444617461A10F830D4461746153657444656C657465A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF3059801444696666665726 56E7469616C4964656E74697479A10B85094449
6100</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">44437265617465A234A432A015800C496E7465726E616C43657274A1
028000820 1FFA01980104D616E6745787465726E616C43657274A10280008201FF3059801444
696666665726 56E7469616C4964656E74697479A10B850944494444656C657465A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF30819980094E616D656444617461A10D830B446174615365744C6973
74A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800543485049
4EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A80
6100</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">11416C706861457874657265726E616C43657274A1028000820100A01980
1042657461457874657265726E616C43657274A1028000820100820641504 95F4F4B9000</encode
dData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F01E820536A182052AA0820526301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
7479A1098507449444C697374A2038101FF3027800F436172644170706C69636174696F6EA1
0F820D4578656375746541637469 6F6EA203820100302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6E
A11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264
4170706C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A203
8101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374
6172745365737369 6F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A
436172644170706C69636174696F6E536572766963654C697374A2038201003034800F436172
644170706C69636174696F6EA11C821A436172644170706C69636174696F6E53657276696365
4C6F6164A2038201003036800F436172644170706C69636174696F6EA11E821C436172644170
706C69636174696F6E536572766963654372656174 65A2038201003036800F43617264417070
6C69636174696F6EA11E821C436172644170706C69636174696F6E536572766963654456C65
7465A2038201003038800F436172644170706C69636174696F6EA120821E436172644170706C
69636174696F6E536572766963654465736372696265A2038201003052800 94E616D65644461
7461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C436572
74A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305280
```

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```
094E616D656444617461A10F830D44617461536574446 56C657465A234A432A015800C496E74
65726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102
80008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A4
32A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E
616C43657274A10280008201FF3059801444696666665726 56E7469616C4964656E74697479A1
0B85094449444437265617465A234A432A015800C496E7465726E616C43657274A10280008201
FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966666572
656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E74
65726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102
80008201FF30819980094E616D656444617461A10D830B446174615365744C697374A27DA47B
A015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100A019801042657461457874657 26E616C4365
7274A10280008201008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820B5EA1820B5AA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D3281820B163C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E374639303145383230353336413138323035324141303 8
32303532363330314638303044345137353734363836463732363937413631373436393646 36
45413130393836303734313433443344336393733373441323033383130314646333032363 8
30313434343639363636363653732363536453734363936313643343936343653645373436
39373437394131303938353037343434393434344336393733373441323033383130314646 33
30323738303046343336313732363434313730373036433639363336313734363936463645 41
31304638323044343537383635363337353734363534313633373436393646364541323033 38
32303130303330342383030413433364636453645363536333734363936463645413131353 8
31313634333631373236343431373037303643363936333613734363936463645343336463 6
45364536353633734413230333831303146463330324438303046343336313732363434313 7
30373036433639363336313734363936463645413131353832313334333631373236343431 37
30373036433639363336313734363936463645443363937333734413230333831303146463 3
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413433363137323634343137303730364336393633363137343639364636453533363537323736343631373037303643363936333633534433639373337344132303338323031303033303334383030463433363137323634343137303730364336393633363137343639364636454131314338323143343336313732363434313730373036433639363336313734363936463645413131453832314334333631373236343431373037303643363936333631373436393646363645353336353732373636393633363534343635364336313634323033383230313030333033363830304634333631373236343431373037303643363936333631373436393646363645413131453832314334333631373236343431373037303643363936333631373436393646363645353336353732373636393633363534343635364336313634323033383230313030333033383830304634333631373236343431373037303643363936333631373436393646363645413131453832314334333631373236343431373037303643363936333631373436393646363645353336353732373636393633363534343635364336313634323033383230313030333033383830304634
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  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
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</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820B26A1820B1A80820B166C6E73323A5472616E736D697452
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3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393031453832303533
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</invAspect>
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  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820536A182052AA0820526301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
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0F820D4578656375746541637469 6F6EA203820100302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6E
A11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264
4170706C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A203
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617274536573736 96F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A
436172644170706C69636174696F6E536572766963654C697374A2038201003034800F436172
644170706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654
4C6F6164A2038201003036800F436172644170706C69636174696F6EA11E821C436172644170
706C69636174696F6E536572766963654372656174 65A2038201003036800F436172644170 70
6C69636174696F6EA11E821C436172644170706C69636174696F6E536572766963654465C65
7465A2038201003038800F436172644170706C69636174696F6EA120821E436172644170706C
69636174696F6E536572766963654465736372696265A2038201003052800 94E616D65644461
7461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C436572
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FFA01980104D616E6745787465726E616C43657274A10280008201FF3059801444696666657265
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80008201FF30819980094E616D6564446174 61A10D830B446174615365744C697374A27DA47B
A015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A10280008201 0A0198010426574614578746 5726E616C4365
7274A10280008201008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
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  <refId>120</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A0000041000020001 card application access
      rules. Ensure that the ACL is as expected.</description>
  <encodedData
type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
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6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D4578656375746541637469 6F6EA203820100302B800A436F6E6E656374696F6E
A1188116436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172
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01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
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696F6EA11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43
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</invAspect>
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  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application DID list. Ensure that the DID list
     contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
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  </encodedData>
</invAspect>
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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
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6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
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  <refId>124</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
313035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
```

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```
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A104265746145787465726E616C436572741A104D616E6745787465726E616C436572741A
11416C70686145787465726E616C4365727482064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
426574614578746572 6E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657 26E616C436572748206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019EA182019AA03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D32818201563C6E73323A5472616E736D697452657370 6F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031323538413134454130344331413035343334
3835303439344531413043343936453734363537323645363136433433363537323734314131
3034323635373436313435373837343635373226453631364334333635373237343141313034
4436313645363734353738373436353732264536313643343336353732373431413131343136
4337303638363134353738373436353732364536313643343336353732373438323036343135
3034393546344634423930303 03C2F4F7574707574415044553E0A3C2F6E73323A5472616E73
6D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445533E37463930313235384131343
4541303443314130353433343835303439344531413043343936453734363537323645363136
4334333635373237343141313034323635373436313435373837343635373236453631364334
3336353732373431413130344436313645363734353738373436353732364536313643343336
3537323734314131313431364337303638363134353738373436353732364536313643343336
3537323734383230363431353034393546344634423930303033C2F4F7574075744150445533E
0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
4265746145787465726E616C436572741A104D616E6745787465726E616C436572741A11416C
7068614578746572E616C436572748206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000010001 card application DID
      list. Ensure that the DID list contains the expected
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
```

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```
741A1042657461457874657261E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657261E616C43657274820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application DataSet list. Ensure that the DataSet
     list contains the expected DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637313035413130333830303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A2020202036536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820145A1820141A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
```

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```
73696F6E49442D328181FE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323243413132324130323031413035333132443
34343533333131413035333132443434353333323141303533331324434343533333331413039
34313633363336353733373334433646363738323036343135303439354634463442393030303
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646520544 32D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82010DA18201018081FE3C6E73323A5472616E736D69745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A202020203C4F7574707574415044553E3746384637323243413132324
1303230314130353331324434343533333131413035333132443434353333323141303533331
3244343435333333331413039343136333633363537333733344336463637383230363431353034
3439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```


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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09
4163636573734C6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000010001 card application
     DataSet list. Ensure that the DataSet list contains the expected
DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031303746384637353043413130413830303130303831303533331324434
353333313030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4652D54432D53
657373696F6E49442D328100821C536D617274636172645369646 4652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
```

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```
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303831303533313244343435333331303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A80010081053120D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463736303838323036343135303439354634463442393030
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617746361726 42D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>166</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E374638463736303838323036343 1
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
1-DS1 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 1-DS1 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>170</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A323437323734746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463739303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234373233A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C20000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B9000</
OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130304331413041333132 44
34343533333132443434353334393331383230363431353034393546344634423930303 03C2F
4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D22757269733A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413138413130454130
3043314130413331324434343533333132443434353334393331383230363431353034393546
34463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>184</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS1 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
```

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```
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031303746384637353043413130413830303130303831303533313244343434
353333323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303831303533313244343435333332303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A800100810531 2D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>199</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
1-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 1-DS2 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030303937463846373930354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
```

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```
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
44534932820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820135A1820131A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181EE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 3E3746384637413234413131414130313831413041333132 44
343435333332324434343533343933313241304133313244343435333332324434343533343 9
333238323036343135303439354634463442393030303C2F4F7574075744150445 E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>214</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E3746384637413234413131414130
3138314130413331324434343453333332244343435333439333131413041333313244343453
3332324434343533343933323832303634313530343935463446344239303030303C2F4F757470
7574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS2 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
4453493282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>13</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS3 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445333</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453330000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D536573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304138303031303038313035333132443434
35333333303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>221</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504455E3030433230303030303030303031303746384637
353043413130413830303130303831303533313244343435333333303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

     <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453330000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
```

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```
30303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
1-DS3 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 1-DS3 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
    <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
    </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
```

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```
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463739303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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```
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D44534933820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D445349
321A0A312D4453332D44534933820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>243</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D32818201063C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746384637413330413132364130323431413041333132
443434353333333244343435333439333131413041333132443434353333332443434353334
393332314130413331324434343533333332443434353334393333383230363431353034393
463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452
6573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820116A182010A808201063C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
```

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```
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445553E3746384637413330413132
364130323431413041333132443434353333333244343435333439333131413041333132443434
343533333332443434353334393332314130413331324434343533333332443434353334393333
333832303634313530343935463446344423930303C2F4F7574075744150445553E0A3C2F6E
73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D445349
321A0A312D4453332D44534933820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS3 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D44534933820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800100810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313437463846373531304131304538303031303038313039343136333633
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>254</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303134374638463737
353130413130453830303130303831303934313633363336335373337333443364637303030
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C20000000147F8F7510A10E800100810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800100810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>15</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>261</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the expected DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463739303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504453E303043323030303030303030303393746384637
393035413130333830303130303030303 03C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B90
00</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011BA1820117A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
```

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```
73696F6E49442D328181D43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413137413130444130304231413039343136 33
3633363537333733344336463637383230363431353034393546344634423930303C2F4F75
7470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413137413130444130
3042314130393431363336333633653733373334433646363738323036343135303439354634
3442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
      list contains the expected DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the A00000041000020001 card
application. The following set of actions shall
      test the A00000041000020001 card application pre-
conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A20202020 3C496E707574415044553E303043
32303030303030303030353037463846353734434131344141303435413131423830313936383 7
343734373033413246324637333644363137323734333631373236343244363836463733373
343245364536353734383331383432364337353635323034393436343432303532363536313 6
343635373232303533344533323334333333332343133343834303130313835303941303030303
303034313030303032303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463246373 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323033333445333 2
333433333332343133334383430313031383530394130303030303034313030303032303030313
383130313030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000200018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000200018101000</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>17</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646652D
54432D536573736F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384635383044413130333830303130313832303634313
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>293</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635383044413130333830
3031303138323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974537 06F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the A00000041000020001 card application. The
     following set of actions shall test the A00000041000020001 card
application pre-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
     with management permissions to view all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
```

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```
3030303030303030303144374639303142313941313137383030313031413130323830303038323043343936453734363537323645363136433433363537323734383330303030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A2020203C496E707574415044553E3030433230303030303030303031443746393031423139413131313738303031303141313032383030303832304334393645373436353732364536313643343336353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800101A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800101A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
3030383230363431353034393546344634423930303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>311</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the InternalCert DID. This, combined with
     MangExternalCert, shall provide us with management permissions to view
all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the MangExternalCert DID. This
shall provide us with management permissions
     to view all of the smart card, except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874747 03A2F2F536D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303231374639303142314441313142383030313031413130323830303038
3130344436313645363734353738373436353732364536313643343336353732373438333030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E303043323030303030303030323137463930 31
42314441313142383030313031413130323830303038323130344436313645363734353738 37
343635373236453631364334333635373237343833303030303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800101A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800101A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA10280008206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646 52D
54432D536573736 96F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D613323E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455 3E3746393031433043413130323830303038323036343135 30
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303143304341313032383 0
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA1028000820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the MangExternalCert DID. This shall
     provide us with management permissions to view all of the smart card,
except the AccessLog.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800101A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800101A10280008205434850494E83000000<
/InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012AA1820126A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181CA3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313637463930314231324131313038303031303141313032383030303832
3035343334383530343934453833303030303030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>332</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D8A181CD8081CA3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757 4415044553E3030433230303030303030303031363746393031
42313241313130383030313031413130323830303038323035343334383530343934454538333 0
30303030303C2F496E70757 4415044553E0A3C2F6E73323A5472616E736D69743E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000167F901B12A110800101A102800082054348504 94E83000000<
/InputAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000167F901B12A110800101A10280008205434850494E830000
</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the CHPIN DID. This shall provide us with
     permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application access rules. Ensure that the ACL
     contains the expected access rules.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000020001</encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100002000100 00</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303032383746393031443234413132323830303130313831313034333431353 2
343432443431353035303443343934333431353434393446 4454132304238323039413030303
303030343130303030303230303031303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
443234413132323830303130313038313130343334313532343432443431353035303443343934
333431353434393446344541323042383230394130303030303034313030303030323030303130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A0000004100002000100 00</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010181104341524 42D4150504C494341
54494F4EA20B8209A0000004100002000100</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
6100</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E65
6374696F6EA11D811B43617264170706C69636174696F6E537461727453657373696F6EA203
8101FF305280094E616D656444617461A10F830D44617461536574437265617465A234A432A0
15800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C
43657274A10280008201FF305280094E616D656444617461A10F830D44617461536574 44656C
657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67
45787465726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B
6100</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
```

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```
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">860941434C4D6F64696679A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
5980144469666666572656E7469616C4964656E74697479A10B85094449444437265617465A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B850944494444656C657465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF307E80094E616D6564
6100</encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">44617461A10D830B446174615365744C697374A262A460A015800C49
6E7465726E616C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465
726E616C43657274A1028000820100820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

  <OutputAPDU>7F901E820379A182036DA0820369301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
7479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881164361
726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D656444
617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3052
80094E616D656444617461A10F830D4461746153657444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469666665
72656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF307E80094E616D656444617461A10D830B4461746153657 44C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F318207E4A18207E0A03E801C536D617274636172645369646 52D
54432D536573736 96F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328182079C3C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574075744154455 44553E3746393031453832303337394131383230333644413038
323033363933303146383030443431373537343638364637323639374136313734363936463 6
454131303938363037343134333443344336393733373441323033383130314646333032363 8
303134343436393636363636353732363536455373436393631364334393634363536455373436
393734373941313039383530373434343934343443363937333734413230333831303146463330
303242383030413433364636456453653633373436393646364541313138383131363433336
313732363434313730373036433639363336313734363936463645343336463645364536
333734413230333831303146463330324438303046343336313732363434313730373036433 6
393633631373436393646364541313135383231333433363137323634343137303730364336
393633631373436393646364534433639373337344132303338313031464633303245383030
413433364636456453653633373436393646364541313142383131393433363137323634343
313730373036433639363336313734363936463645343436393733363336463645364536353 6
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333734413230333831303146463330324538303041343336463645364536353633373436393646364541313142383131393433363137323634343137303730364336393633363137343639363645363453633363537333733363936463645413230333831303146463330333038303041343336463645364536353633373436393646364541313144383131423433363137323634343137303730364336393633363137343639363645353337343631373237343533363537333733363936463645413230333831303146463330353238303039344536313644363536343436353633373436393646364541313
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657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>364</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8207ACA18207A08082079C3C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C52657375 6C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445 53E3746393031453832303337
394131383230333644413038323033363933303146383030443431373537343638364637323 6
393741363137343639366463645413130393836303734313433344334336393733373441323 0
333831303146463330323638303134343436393636363636353733636536453734363963136
433439363436353645373436393734373941313039383530373434343934343433639373337
344132303338313031464633303242383030413433336463645364536353633734363964636
454131313838313136343336313732363434313730373036433639363336137343639364636
453433364636453645363536333734413230333831303146463330324438303046343336313 7
323634343137303730364336393633363137343639343036454131313538323133343336313 7
323634343137303730364336393633363137343639364636453443363937333734413230333 8
313031464633303245383030413433336463645364536353633734363936463645413131423 8
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333633364636453645363536333734413230333831303146463330324538303041343336463 6
453645363536333734363936463645413131423831313934333631373236343431373037303 6
433639363336137343639364636453435364536343533363537333733639364636454132303
333831303146463330333038303041343336463645364536353633734363936463645413131
443831314234333631373236343431373037303643363936333631373436393646364535333 7
343631373237343533363537333533639364636454132303338313031464633303532383030
393445363136443635363434343631373436314131304638333044343436313734363135333 6
353734343337323635363137343635413233344134333241303135383030433439364537343 6
353732364536313643343335373237344131303238303030383230314646413031393830313 1
303444361364536373435373837343635373236453631364334333635373237344131303238
303030383230314646413031393830313034443631364536373435373837343635373236453 6
313643343336353732373441313032383030303832303146463330353238303044343137343 7
343638364637323639374136313734363936463645413130423836303934313433344434436
463634363936363739413233344134333241303135383030433439364537343635373236453 6
313643343336353732373441313032383030303832303146464130313938303130344436313 6
453637343537383734363537323645363136433433363537323734413130323830303038323 0
314646333035393830313434343639363636363635373236353645373436393631364334393 6
343635364537343639373437394131304238353039343434393434343337323635363137343 6
354132333441343332413031355383030433439364537343635373236453631364334333635 7
323734413130323830303038323031464641303139383031303444363136453637343537383 7
343635373236453631364334333635373237344131303238303030383230314646333035393 8
303134343436393636363636353732363536453734363936313643343936343635364537343 6
393734373941313042383530393434343934343434363536433635373436354132333441343 3
324130313538303043343936453734363537323645363136433433363537323734413130323 8
303030383230314646413031393830313034443631364536373435373837343635373236453 6
313643343336353732373441313032383030303832303146463330375383030393445363136
443635363434343631373436314131304438333042343436313734363135333635373434433 6
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3937333734413236324134363041303135383030433439364537343635373236453631364334
3336353732373441313032383030303832303146464135343741303045383030353433343835
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3441313032383030303832303130303832303634313530343935463446344239303030 3C2F4F
7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820379A182036DA0820369301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C4964656E7469
7479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA11582134361726441706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441706C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441706C69636174696F
6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43617264
4170706C69636174696F6E53746172745365737369 6F6EA2038101FF305280094E616D656444
617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF3052
80094E616D656446174 61A10F830D4461746153657444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
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A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479
A10B85094449444372656 17465A234A432A015800C496E7465726E616C43657274A102800082
01FFA01980104D616E6745787465726E616C43657274A10280008201FF3059801446966666 5
72656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A10280008201008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000010001 card application access
     rules. Ensure that the ACL contains the expected access
rules.</description>
  <encodedData
type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43
6172644170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D
656444617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF305280094E616D656444617461A10F830D4461746153657444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F646966
79A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578
7465726E616C43657274A10280008201FF3059801444696666657265E7469616C4964656E74
697479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469
66666572656E7469616C4964656E74697479A10B85094449444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A2
62A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657 26E616C43657274A10280008201008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the DID list
     contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030303937463930313130354131303338303031303130303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
65737369 6F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
```

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```
313035413130333830303130313031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F901105A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657265726E616C43657274820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
42657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657265726E616C436572748206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019EA182019AA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D32810082 1C536D617274636172645369646 52D54432D536573
73696F6E49442D32818201563C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7874643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C536573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574075744150445 3E3746393031323538413134454130344331413035343334
383530343934453141304334393645373436353732364536313643343336353732373431 31
303432363537343631343537383734363537323645363136433433363537323734314131303034
443631364536373435373837343635373236453631364334333635373237343141313034
443631364536373435373837343635373236453631364334333635373237343141313134313136
433730363836313435373837343635373236453631364334333635373237343832303634313 5
303439354634463442393030303C2F4F7574075744150445 3E0A3C2F6E73323A5472616E73
6D69745265737 06F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```


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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820166A182015A808201563C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C52657756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393031323538413134
4541303443314130353433343835303439344531413043343936413734363537323645363136
4334333635373237343141313034323635373436313435373837343635373236453631364334
3336353732373431413130344436313645363734353738373436353732364536313643343336
3537323734314131313431364337303638363134353738374365357323645363136433433336
3537323734383230363431353034393546344634423930303C2F4F7574707574415044553E
0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A10
4265746145787465726E616C436572741A104D616E6745787465726E616C436572741A11416C
706861457874657 26E616C436572748 2064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application DID
      list. Ensure that the DID list contains the expected
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657465726E616C436572741A104D616E6745787465726E616C436572741A
11416C70686145787465726E616C4365727482064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DataSet list. Ensure that the DataSet
      list contains the expected DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A1038001010</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463731303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001010000</InputAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

        <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820137A1820133A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323235413131424130313931413033533323244
34343533333131413035333232443434353333323141303934313633363336335373373334 43
3646363738323036343135303439354634463442393030303C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FEA181F38081F03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637323235413131424130
313931413035333232443434353333313141303533332244343435333332314130393431363
3633363537333733344336463637383230363431353034393546344634423930303C2F4F75
747075744150445 3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206415049
5F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>397</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7225A11BA0191A05322D4453311A05322D4453321A094163636573734C
6F6782064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application
     DataSet list. Ensure that the DataSet list contains the expected
DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D22757261E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304130303031303138313035333232443434
35333331303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130313138313035333232443434353333313030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105322D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3743846373630383832303634 31
353034393546346346342393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
2-DS1 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303937463846373930354131303338303031303130303030303C2F496E7075
744150445 3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

     <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D
44534932820641504 95F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D445349
3282064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820135A1820131A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181EE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384637413234413131414130313831413041333232 44
34343533333132443434353334393331314130413332324434343533333132443434353333439
33323832303634313530343935463446344239303030 3C2F4F7574075744150445 53E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>426</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172743617 2642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413234413131414130
3138314130413332324434343533333132443434353334393331314130413332324434343533
3331324434343533343933323832303634313530343935463446344239303030 3C2F4F757470
7574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D445349
3282064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 2-DS1 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D
4453493282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445332</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304138303031303138313035333232443434
35333332303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
    IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130313138313035333232443434353333323030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001018105322D4453320000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001018105322D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230303431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E3746384637363038383230363431
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
2-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the
DSI list contains the expected DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA05780C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637393035413130333830303130313030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313031303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D44534931820641504 95F4F4B
9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A20202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130304331413041333232 44
34343533333032443434353334393331383230363431353034393546344634423930303 03C2F
4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A737464A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413138413130454130
3043314130413332324434343533333232443434353333439333138323036343135303439354 6
34463442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A322D4453322D44534931820641504 95F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 2-DS2 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D44534931820641504 95F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001 47F8F7510A10E800101810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313437463846373531304131304538303031303138313039343136333633
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
```

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```
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A18C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504455E30304332303030303030303031343746384637
353130413130453830303130313831303934313633363336353733373334344364636373030
303C2F496E70757441504455E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7510A10E800101810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7510A10E800101810941636365373734C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>478</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the expected DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>29</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463739303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
```

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```
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B90
00</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011BA1820117A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D43C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D696563323432343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E374638463741313741313044413030423141303934313633
363336353733373334433646363738323036343135353439354634463442393030303C2F4F75
74707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```


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```
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413137413130444130
3042314130393431363336333633653733373334433646363738323036343135303439354634463
3442393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B9000</Ou
tputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
      list contains the expected DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the A00000041000020001 card
application as local DIDs were authenticated
      during this connection.</description>
```

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```
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D69742078D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463539303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
```

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```
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D536573736F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61233E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746384635413038383230363431
353034393546344634423930303032F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000020001 card application
     as local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the A00000041000010001 card
application as local DIDs were authenticated
     during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384635393035413130333830303130303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
```

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```
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>518</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
```

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```
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
```

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```
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E656374207 6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343733373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E8206A150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645364652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>534</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>535</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000010001 card application
     as local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000010001 card application. The
following set of actions shall delete the
     A00000041000010001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E6574831842C7565204946442052656164657220534E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>541</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818ED83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>543</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>544</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
```

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```
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>546</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
```

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323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>549</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous write.</description>
  <encodedData type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>550</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The payload is an XML message. The XML is the
      marshalled response object from the previous IFD response.</description>
  <encodedData type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>551</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

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```
      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A000000410000100018101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E65748201C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303035303746384635373443413134414130343541313142383031393638373
343734373033413246324637333644363137323734363336313732363432443638364637333
343245364536353734383331383432364337353635323034393436343432303532363536313
343635373232303533344533323334333333323431333438343031303138353039413030303030
303034313030303031303030313831303130303030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA1820142808201 3E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504455 3E303043323030303030303035303746
384635373443413134414130343541313142383031393638373437343730334132463273 3
364436313732373436333631373236343244363836463733373432453645363537343833313 8
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333332343133343834303130313835303941303030303030343130303030313003030 31
383130313030303030303C2F496E70757441504455 3E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F8F574CA14AA045A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018509A0000004100001000181010000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F8F574CA14AA045A11B80196874747703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018509A000000410000100018101 0000</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

        <OutputAPDU>7F8F580DA1038001008206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F757470757441504455 3E3746384635383044413130333830303130303832303634 31
353034393546344634423930303 03C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>563</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455 3E3746384635383044413130333830
303130303832303634313530343935463446344639303030 3C2F4F757470757441504455 3E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F580DA10380010082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>566</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the
A00000041000010001 card application. The following set
     of actions shall delete the A00000041000010001
application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the Management external DID. Only management can
delete objects.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>568</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000217F901B1DA11B800100A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820140A182013CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726426686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181E03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030323137463930314231444131314238303031303041313032383030303832
3130344436313645363734353738373436353732364536313643343336353732373438333030
303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedDat
a>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81EEA181E38081E03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E303043323030303030303030323137463930314
2314441313142383030313030413130323830303038323130344436313645363734353738373
4363537323645363136433433363537323734383330303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000217F901B1DA11B800100A102800082104D616E6745787465726
E616C4365727483000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000217F901B1DA11B800100A102800082104D616E6745787465
726E616C43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA1028000820641504 95F4F4B9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A8820101A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A2020202032526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135 30
343935463446344239303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3A4393031433043413130323830
3030383230363431353034393546344634423934303033C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E820641050495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
Management external DID. Only management can delete
     objects.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>34</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the Interanl DID.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>584</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>585</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303144374639303142313941313137383030313030413130323830303038
3043343936453734363537323645363136433433336353732373438333030303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>586</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>587</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504553E3030433230303030303030303031443746393031
42313941313137383030313030413130323830303038323043343936453734363537323645 36
313643343336353732373438333030303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001D7F901B19A117800100A1028000820C496E7465726E616C436
5727483000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001D7F901B19A117800100A1028000820C496E7465726E616C
43657274830000</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
```

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```
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031433043413130323830303038323036343135330
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E73652078 6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
373237 3A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031433043413130323830
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901C0CA102800082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the Interanl
DID.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>599</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304138303031303038313035333132443434
35333331303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>603</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810 821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
    IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303831303533331324434343533333130303030 3C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>
```

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```
        <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A3234732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637363038383230303431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E374638463736303838323036343 1
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Select the 1-DS1
DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the 1-DS1 DSI. Ensure that a DSI can be
deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F7D11A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>616</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F8F7D11A10F800100810A312D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303135374638463744313141313046383030313030383130413331324434
353333313244343435333439333130303030 3C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>36</annexAId>
```


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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031353746384637
443131413130463830303130303831304133313244343435333331324434343533343933313030
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F8F7D11A10F800100810A312D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F8F7D11A10F800100810A312D4453312D4453493100</
encodedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7E0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7E0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D536573736967E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61233E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374638463745303838323036343135303439354634463442393030
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>627</refId>
  <annexAId>36</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>628</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A574643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A2020202033C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463745303838323036343 1
353034393546344634423933030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>629</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7E0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>630</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the 1-DS1 DSI.
Ensure that a DSI can be deleted.</description>
  <encodedData type="xs:hexBinary">7F8F7E0882064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to read the 1-DS1-DSI1 DSI. Ensure that deleted DSI
can no longer be read.</description>
  <encodedData
type="xs:hexBinary">7F900111A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A312D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313537463930303131314131304638303031303038313041333132443434
3533333132443434353334393331303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>635</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D5 3657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E70757441504455E303043323030303030303031353746393030
313131413130463830303130303831304133313244343435333331324434343533343933130
3030303C2F496E70757441504455E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A312D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>638</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F900111A10F800100810A312D4453312D4453493100</
encodedData>
</invAspect>
<invAspect>
  <refId>639</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E449000</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

     <Result>IFD_OK</Result>

     <OutputAPDU>7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820125A1820121A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181DE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393030323143383231413431353034393546344534 31
344434353434354634353445353434393534353935463445344635343546343634463535344 5
3434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>644</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393030323143383231413431
353034393546344534313444343534343546343534453534343935343539354634453463534
354634363446353534453434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472
616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>37</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>646</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to read the 1-DS1-
DSI1 DSI. Ensure that deleted DSI can no
     longer be read.</description>
  <encodedData
type="xs:hexBinary">7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>647</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the 1-DS1-DSI1 DSI again. Ensure that a
deleted DSI can not again be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F7D11A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000157F8F7D11A10F800100810A312D4453312D445349310000</I
nputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726420642D686F73742E
6E6574821C436C69656E74417070536964652D54432D536573736F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313537463846374431314131304638303031303038313041333132443434
353333313244434343533343933313030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031353746384637
4431314131304638303031303038313041333132443434353333313244434345333439333130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F8F7D11A10F800100810A312D4453312D445349310000</I
nputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F8F7D11A10F800100810A312D4453312D4453493100</
encodedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F7E1C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E449000</encodedData>
</invAspect>
<invAspect>
  <refId>656</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7E1C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>657</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820125A1820121A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181DE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637453143383231413431353034393546344534313
3444343534343546343534453534343935343539354634453446354345463436344635353445
343439303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>658</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>38</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>660</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637453143383231413431
353034393546344534313444343534343546343534453534343935343539354634453463534
354634363446353534453434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472
616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

     <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7E1C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiDelete</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Attempt to delete the 1-
DS1-DSI1 DSI again. Ensure that a deleted DSI
      can not again be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F7E1C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS1-DSI1 DSI. Ensure that a deleted DSI can be
recreated with different data.</description>
  <encodedData
type="xs:hexBinary">7F8F7B34A132800100810A312D4453312D44534931822l4E616D653A
20426F62204D634C65616E3B20444F423A20313937382D31302D3033</encodedData>
</invAspect>
<invAspect>
  <refId>664</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000387F8F7B34A132800100810A312D4453312D4453493182214E6
16D653A20426F62204D634C65616E3B20444F423A20313937382D31302D30330000</InputAP
DU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>665</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182016FA182016BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182010E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
```

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```
323030303030303030333837463846374233344131333238303031303038313041333132443434
343533333132443434353334393331383232313445363136443635334132303432364636323232
303444363334433633631364533423230343434463432334132303331333933373338324433
313330324433303333303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D
69743E</encodedData>
</invAspect>
<invAspect>
  <refId>666</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>667</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82011EA18201128082010E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303033383746
384637423334413133332383030313030383130413331324434343533333132443434353333439
333138323231344536313644363533413230343236463632323034443633344363536313645
334232303434344634323341323033313339333733383244333133330324433303333303030303
3C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</en
codedData>
</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000387F8F7B34A132800100810A312D4453312D4453493182214E6
16D653A20426F62204D634C65616E3B20444F423A20313937382D31302D30330000</InputAP
DU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>670</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000387F8F7B34A132800100810A312D4453312D445349318221
4E616D653A20426F62204D634C65616E3B20444F423A20313937382D31302D303300</encode
dData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7C0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
```

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```
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637433038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E374638463743303838323036343 1
353034393546344634423930303C2F4F7574075744150445553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7C0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS1-DSI1 DSI.
Ensure that a deleted DSI can be recreated
     with different data.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 1-DS1-DSI1 contents. Ensure that the recreated
DSI has the correct data.</description>
  <encodedData
type="xs:hexBinary">7F900111A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>680</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A312D4453312D445349310000</I
nputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>681</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031353746393030313131413130463830303130303831304133313244343434
353333313244343435333439333130303030 3C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>682</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>683</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>684</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303135374639303030
3131314131304638303031303038313041333132443434353333313244434345333439333130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C20000000157F900111A10F800100810A312D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>686</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F900111A10F800100810A312D4453312D4453493100</
encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F
423A20313937382D31302D303382064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F423A20
313937382D31302D303382064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>689</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820148A1820144A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818201003C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393030323244413132333830323134453631364436
353341323034323646363232303444363334433635363136453342323034343446343233413 2
303331333933373338324433313330324433303333383230363431353034393546344623 9
3030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73
653E</encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>691</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646520544320D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F737420E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820110A18201004808201003C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574707574415044553E3746393030323244413132
3338303231344536313644363533413230343236463632323034443633344336353631364533
4232303434344634323341323033513339333733383244333133303244333033333832303634
3135303439354634463442393030303C2F4F7574707574415044553E0A3C2F6E73323A547261
6E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F423A20
313937382D31302D303382064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS1-DSI1
contents. Ensure that the recreated DSI has
      the correct data.</description>
  <encodedData
type="xs:hexBinary">7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F
423A20313937382D31302D303382064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Retrive the 1-DS1 DSI List. Ensure that the recreated DSI is
in the DSI list.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>696</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>697</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
```

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```
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030393746384637393035413130333830303130303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>698</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>699</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>700</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>701</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>

        <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>702</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>703</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B
9000</encodedData>
</invAspect>
<invAspect>
  <refId>704</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>Transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>705</refId>
  <annexAId>41</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011DA1820119A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181D63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637413138413130454130303433141304133313244
34343533333132443434353334393331383230363431353034393546346346344239303030 3C2F
4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637413138413130454130
304331413041333132443434353333313244343435333439333138323036343135303439354
```

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```
3446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D69745265
73706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>709</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F7A18A10EA00C1A0A312D4453312D44534931 82064150495F4F4B9000</
OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
 <description>Return of previous SAL Proxy call: Retrive the 1-DS1 DSI List.
Ensure that the recreated DSI is in the
     DSI list.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931 82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the 1-DS1-DSI1 DSI again. Ensure that a recreated DSI
can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F7D11A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F8F7D11A10F800100810A312D4453312D445349310000</I
nputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031353746384637443131413130463830303130303831304133313244343434
353333313244343435333439333130303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>715</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>716</refId>
  <annexAId>42</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031353746384637
4431314131304638303031303038313041333132443434353333313244343435333439333130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>717</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C20000000157F8F7D11A10F800100810A312D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>718</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F8F7D11A10F800100810A312D4453312D4453493100</
encodedData>
</invAspect>
<invAspect>
  <refId>719</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7E0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>720</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7E0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>721</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A20202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637453038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>722</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>723</refId>
  <annexAId>42</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>724</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637453038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>725</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

        <OutputAPDU>7F8F7E0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the 1-DS1-DSI1 DSI
again. Ensure that a recreated DSI can be
     deleted.</description>
```

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```
  <encodedData type="xs:hexBinary">7F8F7E0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>727</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to read the 1-DS1-DSI1 DSI. Ensure that the deleted
DSI can no longer be read.</description>
  <encodedData
type="xs:hexBinary">7F900111A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A312D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820128A1820124A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C83C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303135374639303031313141313046383030313030383130413331324434
353333313244343435333439333130303030303C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>43</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>731</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D6A181CB8081C83C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031353746393030
3131314131304638303038303831304133313244343435333331324434343533334393331 30
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>733</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000157F900111A10F800100810A312D4453312D445349310000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>734</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000157F900111A10F800100810A312D4453312D4453493100</
encodedData>
</invAspect>
<invAspect>
  <refId>735</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E449000</encodedData>
</invAspect>
<invAspect>
  <refId>736</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>737</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820125A1820121A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181DE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393030323143383231413431353034393546344534343
3444343534343546343534453534343935343539354634453446354634363446344635353445
3434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>738</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>739</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32819687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>740</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393030323143383231413431
353034393546344534313444343534343546343534453534343935343539354634453463534
3546343634463535344534343930303C2F4F7574707574415044553E0A3C2F6E73323A5472
616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>741</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to read the 1-DS1-
DSI1 DSI. Ensure that the deleted DSI can no
     longer be read.</description>
  <encodedData
type="xs:hexBinary">7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the 1-DS1 DataSet. Ensure that an empty DataSet can be
deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F770CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


    <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453310000</InputAPDU>
       </ns2:Transmit>
    </encodedData>
  </invAspect>
  <invAspect>
    <refId>745</refId>
    <annexAId>44</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>write</method>
    <invocationType>CALL</invocationType>
    <description>Transmit the IFD XML message from the TC Proxy to the TC
  Agent. The XML is the marshalled call object
       from the previous IFD Proxy call.</description>
    <encodedData
  type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E7441707053696465 2D
  54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
  6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
  73323A5472616E736D697420786D6C6E733A6E73323D22 726E3A69736F3A7374643A69736F
  2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
  6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
  3030303030303030303130374638463737304341313041383030313030383130353331324434
  3533331303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
  codedData>
  </invAspect>
  <invAspect>
    <refId>746</refId>
    <annexAId>44</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>write</method>
    <invocationType>RETURN</invocationType>
    <description>Return of the write.</description>
    <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>747</refId>
    <annexAId>44</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>read</method>
    <invocationType>CALL</invocationType>
    <description>Wait for the call, from the TC Agent.</description>
    <encodedData
  type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
  657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
  49442D32</encodedData>
  </invAspect>
  <invAspect>
    <refId>748</refId>
    <annexAId>44</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>read</method>
    <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
3730434131304138303031303038313035333132443434353333313030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F770CA10A8001008105312D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>751</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F780882064150495F4F4B9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>752</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>753</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3184FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A2020202033C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F757470757441504553E3746384637383038383230363431353034393546344634423930
30303C2F4F757470574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>754</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>755</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>756</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637383038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>757</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>758</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the 1-DS1 DataSet.
Ensure that an empty DataSet can be deleted.</description>
  <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>759</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to select the 1-DS1 DataSet. Ensure that a deleted
DataSet can no longer be selected.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>760</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>761</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303130374638463735304341313041383030313030383135333132443434
353333331303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>763</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303038313035333132443434353333313030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>767</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E449000</encodedData>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820125A1820121A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181DE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637363143383231413431353034393546344534 31
```

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```
3444343534343546343534453534343935343539354634453446353435463436344635353445
3434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>770</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>771</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>772</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363143383231413431
353034393546344534313444343534343546343534453534343935343539354634453463534
3546343634463535344534343930303C2F4F7574707574415044553E0A3C2F6E73323A5472
616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>773</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```


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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>774</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to select the 1-
DS1 DataSet. Ensure that a deleted DataSet can
      no longer be selected.</description>
  <encodedData
type="xs:hexBinary">7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>775</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the 1-DS1 DataSet. Ensure that the DataSet
has been deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F770CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>776</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453310000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>777</refId>
  <annexAId>46</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031303746384637373043413130413830303130303831303533313243434
353333313030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>778</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>779</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
373043413130413830303130303831303533313244434345333331303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>781</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453310000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F770CA10A8001008105312D44533100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F781C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E449000</encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
```

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```
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F781C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820125A1820121A03E801C536D6172746361726453696465 2D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181DE3C6E73323A5472616E736D697452657370 6F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746384637383143383231413431353034393546344534 31
3444343534343546343534453534343935343539354634453446353435463436344635353445
3434393030303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>787</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>788</refId>
  <annexAId>46</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463738314338323138343
353034393546344534313444343534343546343534453534343935343539354634453463534
354634363446353534453434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472
616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>789</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F781C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>790</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to delete the 1-
DS1 DataSet. Ensure that the DataSet has been
     deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F781C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>791</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Delete the 1-DS2 DataSet. Ensure that a DataSet that contains
multiple DSIs can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F770CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>792</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>793</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373730434131304138303031303038313035333132443434
353333323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>794</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>795</refId>
  <annexAId>47</annexAId>
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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E733A3A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
37304341313041383030313030383130353331324434343533333230303030C2F496E707574
415044553E0A3C2F6E73323A5472616E736D697453E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>798</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
```

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```
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F770CA10A8001008105312D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>799</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F780882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>800</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637383038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>802</refId>
```

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```
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>803</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>804</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A73368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637383038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>805</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>806</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the 1-DS2 DataSet.
Ensure that a DataSet that contains multiple
     DSIs can be deleted.</description>
  <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>807</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to retrieve the 1-DS2 DataSet access rules. Ensure
that the access rules for the deleted DataSet
     are not longer accessible.</description>
  <encodedData
type="xs:hexBinary">7F901D18A11680010081084441544 12D534554A2078005312D445332
</encodedData>
</invAspect>
<invAspect>
  <refId>808</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001C7F901D18A11680010081084441544 12D534554A2078005312
D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>809</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820136A1820132A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303031433746393031443138413131363830303130303038313038343434313534
34313244353334353534413230373830303533331324434343533333230303030 3C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>810</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>811</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>812</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031433746393031
443138413131363830303130303038313038343434313534343132443533343535344132303738
303035333132443434353333332303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>813</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001C7F901D18A11680010081084441544 12D534554A2078005312
D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>814</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001C7F901D18A11680010081084441544 12D534554A2078005
312D44533200</encodedData>
</invAspect>
<invAspect>
  <refId>815</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E449000</encodedData>
</invAspect>
<invAspect>
  <refId>816</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>817</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820125A1820121A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181DE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031453143383231413431353034393546344534
3443435343435463435344535343435343935343539354634453446353435463436344635353445
3434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>818</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>819</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>820</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031453143383231413431
353034393546344534313444343534343546343534453534343935343539354634453463534
354634363446353534453434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472
616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>821</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>822</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to retrieve the 1-
DS2 DataSet access rules. Ensure that the
      access rules for the deleted DataSet are not longer
accessible.</description>
  <encodedData
type="xs:hexBinary">7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>823</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to select the 1-DS2 DataSet. Ensure that a deleted
DataSet can not longer be selected.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>824</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>825</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313037463846373530434131304138303031303038313035333132443434
353333323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>826</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>827</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>828</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563323432373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E3C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303831303533313244343435333332303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>829</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>830</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>831</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E449000</encodedData>
</invAspect>
<invAspect>
  <refId>832</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>833</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820125A1820121A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181DE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637363143383231413431353034393546344534 31
344434353434354634353445353434393534353935463445344635434546343634465353445
3434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>834</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>835</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>836</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363143383231413431
3530343935463445343134443435343435463435344535343439353435393546344534463534
3546343634463035344534343930303C2F4F7574707574415044553E0A3C2F6E73323A5472
616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>837</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
  <OutputAPDU>7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>838</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to select the 1-
DS2 DataSet. Ensure that a deleted DataSet can
      not longer be selected.</description>
  <encodedData
type="xs:hexBinary">7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>839</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS2 DataSet with a minimal access rules. Ensure
that a deleted DataSet can be recreated.
      Recreate the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F73820205A1820201800100810531 2D445332A28201F3301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF30819580094E616D65
6444617461A10983074453494C697374A27DA47BA015800C496E7465726E616C43657274A102
80008201FFA562A00E8005434850494EA1028000820100A01980104D616E6745787465726E61
6C43657274A10280008201FFA01A8011416C70686145787465726E616C43657274A102800082
0100A01980104265746145787465726E616C43657274A10280008201003081998009 4E616D65
6444617461A10D830B446174615365744C697374A27DA47BA015800C496E7465726E616C4365
7274A10280008201FFA562A00E8005434850494EA1028000820100A01980104D616E67457874
65726E616C43657274A10280008201FFA01A8011416C70686145787465726E616C43657274A1
028000820100A01980104265746145787465726E616C43657274A10280008201003081 9B8009
4E616D6564444617461A10F830D44617461536574536 56C656374A27DA47BA015800C496E7465
726E616C43657274A10280008201FFA562A00E8005434850494EA1028000820100A01980104D
616E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E61
6C43657274A1028000820100A01980104265746145787465726E616C43657274A10280008201
00</encodedData>
</invAspect>
<invAspect>
  <refId>840</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000020B7F8F73820205A18202018001008105312D445332A28201F33
01F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF30819580094
E616D656444617461A10983074453494C697374A27DA47BA015800C496E7465726E616C43657
274A10280008201FFA562A00E8005434850494EA1028000820100A01980104D616E674578746
5726E616C43657274A10280008201FFA01A8011416C706861457874657 26E616C43657274A10
28000820100A019801042657461457874657 26E616C43657274A1028000820100308199800 94
E616D656444617461A10D830B446174615365744C697374A27DA47BA015800C496E7465726E6
16C43657274A10280008201FFA562A00E8005434850494EA1028000820100A01980104D616E6
7457874657 26E616C43657274A10280008201FFA01A8011416C706861457874657 26E616C436
57274A1028000820100A019801042657461457874657 26E616C43657274A1028000820100308
19B80094E616D656444617461A10F830D446174615365745365 6C656374A27DA47BA015800C4
96E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1028000820100A01
980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C706861457874657 46
5726E616C43657274A1028000820100A019801042657461457874657 26E616C43657274A1028
0008201000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>841</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820515A1820511A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818204B43C
6E73323A5472616E736D69742D786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303230423746384637333832303230354131383230323031383030303130
313035333132443334353333324132383230314633333031463830304434313735373436383
4637323639374E4631373436393646364541313039383630373431343334434433639373337
3441323033383130314646333038313935383030393445363136443635363434343631373436
3141313039383330373434353334393443363937333734413237444134374241303135383030
4334393645373436353732364536313643343336353732373441313032383030303832303146
4641353241303045383030353433343835303439344541313032383030303832303130304 1
3031393830313034443631364536373435373837343635373236453631364334333635373237
3441313032383030303832303146464130314138303131343136433730363836313435373837
3436353732364536313643343336353732373441313032383030303832303130304130313938
3031303432363537343631343537383734363537323645363136433433363537323734413130
3238303030383230313030333038313939383030393445363136443635363434343631373436
3141313044383330423434363137343631353336353734344336393733373441323744413437
4241303135383030433439364537343635373236453631364334333635373237344131303238
3030303832303146464135362413030453830303534333438353034393445413130323830303
3038323031303041303139383031303444363136453637343537383734363537323645363136
4334333635373237344131303238303030383230314646413031413830313134313643373036
3836313435373837343635373236453631364334333635373237344131303238303030383230
3130304130313938303130343236353734363134353738373436353732364536313643343336
3537323734413130323830303038323031303033303831394238303039344536313644363536
```

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343434363137343631413130463833304434343631373436313533363537343533363536433
353633373441323744413437424130313538303043343936453734363537323645363136433
333635373237344413130323830303038323031464641353632413030453830303534333438
303439344541313032383030303832303130304130313938303130344436313645363734353
738373436353732364536313643343336353732373441313032383030303832303130303030
413830313134313643373036383631343537383734363537323645363136433433363537323
734413130323830303038323031303041303139383031303432363537343631343537383734
353732364536313643343336353732373441313032383030303832303130303030303C2F49
6E707574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>842</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>843</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>844</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8204C4A18204B8808204B43C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303230423746
384637333832303230354131383230323031383030313030383130353331324434343533333 2
413238323031463333303146383030443431373537343638364637323639374136313734363 9
364636454131303938363037343134333443344336393733373441323033383130314646333 0
383139353830303934453631364436353634343436313734363141313039383330373434353 3
343934433639373337344132374441343742413031353830304334393645373436353732364 5
363136433433363537323734413130323830303038323031464641353632413030453830303 5
343334383530343934454131303238303030383230313030413031393830313034443631364 5
363734353738373436353732364536313643343336353732373441313032383030303832303 1
464641303141383031313431364337303638363134353738373436353732364536313643343 3
363537323734413130323830303038323031303041303139383031303432363537343631343 5
373837343635373236453631364334333635373237344131303238303030383230313030333 0
383139393830303934453631364436353634343436313734363141313044383330423434363 1
```

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```
373436313533363537343443363937333734413237444134374241303135383030433439364537343635373236453631364334333635373237344131303238303030383230314646413031363241303045383030353433343835303439344541313032383030303832303136303041303139393830313034443631364536373435373837343635373236453631364334333635373237344131303238303030383230314646413031413830313134313643373036383631343537383734363537323734413130323830303038323031303041303139383031303432373635373236453631364334333635373237344131303238303030383230314646413031353630323830303934453631364436353634343436313734363141303139383031303433393645373436353732364536313643343336353732373441313032383030303832303136303041303139383031303433393645373436353732364536313643343336353732373441313032383030303832303136303041303139383031303434363136453637343537383734363537323645363136433343333635373237344131303238303030383230314646413031353633243030453830303534333438353034393445413130323830303038323031303041303139383031303434363136453637343537383734363537323645363136433343333635373237344131303238303030383230314646413031353633343030453830303534333438353034393445413130323830303038323031303041303139383031303434363136453637343537383734363537323645363136433343333635373237344131303238303030383230314646413031353633343030453830303534333438353034393445413130323830303038323031303041303139383031303432363537343631343537383734363537323645363136433343333635373237344131303238303030383230314646413031353633343030453830303534333438353034393445413130323830303038323031303041303139383031303433323635373436313435373837343635373236453631364334333635373237344131303238303030383230314646413031353633343030453830303534333438353034393445413130323830303038323031303041303139383031303434363136453637343537383734363537323645363136433343
```

```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F8F73820205A18202018001008105312D445332A28201
F3301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF30819580
094E616D656444617461A10983074453494C697374A27DA47BA015800C496E7465726E616C43
657274A10280008201FFA562A00E8005434850494EA1028000820100A01980104D616E674578
7465726E616C43657274A10280008201FFA01A8011416C706861457874657265726E616C43657274
A1028000820100A019801042657461457874657265726E616C43657274A1028000820100300819980
094E616D656444617461A10D830B446174615365744C697374A27DA47BA015800C496E746572
6E616C43</encodedData>
</invAspect>
<invAspect>
  <refId>847</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>848</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF657274A10280008201FFA562A00E8005434850494EA102
8000820100A01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C
706861457874657265726E616C43657274A1028000820100A019801042657461457874657265726E616C
43657274A1028000820100300819B80094E616D656444617461A10F830D446174615365745365
6C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800543
4850494EA1028000820100A01980104D616E6745787465726E616C43657274A10280008201FF
A01A8011416C706861457874657265726E616C43657274A1028000820100A019801042657461457874
7465726E</encodedData>
</invAspect>
<invAspect>
  <refId>849</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>850</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200000D616C43657274A102800082010000</encodedData>
</invAspect>
<invAspect>
  <refId>851</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F740882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>852</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>853</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>854</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>855</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>856</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>857</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F740882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>858</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS2 DataSet
with a minimal access rules. Ensure that a
      deleted DataSet can be recreated. Recreate the 1-DS2
DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>859</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 1-DS2 DataSet access rules. Ensure that the
access rules for the recreated DataSet are the
      same as those specified in the recreation.</description>
  <encodedData
type="xs:hexBinary">7F901D18A11680010081084441544 12D534554A2078005312D445332
</encodedData>
</invAspect>
<invAspect>
  <refId>860</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001C7F901D18A11680010081084441544 12D534554A2078005312
D4453320000</InputAPDU>
     </ns2:Transmit>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>861</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820136A1820132A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031433746393031443138413131363830303130303831303834343431353
43431324435333435353441323037383030353331324434343533333230303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>862</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>863</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>864</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
```

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```
6C653E0A202020203C496E707574415044553E303043323030303030303030314337463930314431384131313638303031303038313038343434313534343132443533343535344132303738303035333132443434353333323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>865</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer. Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001C7F901D18A11680010081084441544 12D534554A2078005312D4453320000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>866</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001C7F901D18A11680010081084441544 12D534554A2078005312D44533200</encodedData>
</invAspect>
<invAspect>
  <refId>867</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E820203A18201F7A08201F3301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF30819580094E616D656444617461A10983074453494C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1028000820100A01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C706861457874657265 6E616C43657274A1028000820100A019801042657461457874657265 6E616C43657274A10280008201003081998 0094E616D656444617461A10D830B44
```

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```
6174615365744C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA5
6100</encodedData>
</invAspect>
<invAspect>
  <refId>868</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>869</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">62A00E8005434850494EA1028000820100A01980104D616E67457874
65726E616C43657274A10280008201FFA01A8011416C70686145787465726E616C43657274A1
0280008201 00A01980104265746145787465726E616C43657274A1028000820100300819B8009
4E616D656444617461A10F830D4461746153657453656C656374A27DA47BA015800C496E7465
726E616C43657274A10280008201FFA562A00E8005434850494EA1028000820100A01980104D
616E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E61
6C43657274A1028000820100A01980104265746145787465726E616C43657274A10280008201
6100</encodedData>
</invAspect>
<invAspect>
  <refId>870</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData type="xs:hexBinary">00C0000000</encodedData>
</invAspect>
<invAspect>
  <refId>871</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">0082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>872</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820203A18201F7A08201F3301F800D4175746867269 7A6174696F6E
A109860741434C4C697374A2038101FF30819580094E616D6564446174 61A10983074453494C
697374A27DA47BA015800C496E7465726E616C43657274A1028008201FFA562A00E80054348
50494EA1028000820100A01980104D616E6745787465726E616C43657274A10280008201FFA0
1A8011416C70686145787465726E616C43657274A1028000820100A0198010426574616457874
65726E616C43657274A10280008201003081998009 4E616D6564446174 61A10D830B44617461
5365744C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA1028000820100A01980104D616E6745787465726E616C43657274A1028000
8201FFA01A8011416C70686145787465726E616C43657274A1028000820100A0198010426574
6145787465726E616C43657274A10280008201003 0819B80094E616D6564446174 61A10F830D
4461746153657453656C656374A27DA47BA015800C496E7465726E616C43657274A102800082
01FFA562A00E8005434850494EA1028000820100A01980104D616E6745787465726E616C4365
7274A10280008201FFA01A8011416C70686145787465726E616C43657274A1028000820100A0
19801042657461457874657265 6E616C43657274A10280008201008 2064150495F4F4B9000</Ou
tputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>873</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F318204F8A18204F4A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818204B03C6E73323A5472616E736D6974526573706F6E736520786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20
2020203C4F7574707574415044553E3746393031453832303230333413138323031463741303 8
3230314633333031463830304434313735373436383646373236393741363137343639364636
4541313039383630373431343334433443343639373337344132303338313031464633303831 39
3538303039344536313644363536343434363137343631413130393833303734343533343934
4336393733373441323744413437424130313538303043343936453734363537323645363136
4334333635373237344131303238303030383230314646413536324130304538303035343334
```

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383530343934454131303238303030383230313030413031393830313034443631364536373435373837343635373236456313643343336353732373441313032383030303832303146464135363241303045383030353433343835303439344541313032383
```

```
  <encodedData
type="xs:hexBinary">7F9F2D8204C0A18204B4808204B03C6E73323A5472616E736D697452
6573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F
4B3C2F526573756C743E0A202020203C4F7574075744150445 53E3746393031453832303230
33413138323031463741303832303146333330314638303044343137353734363836463732
39374136313734363936463645413130393836303734313433344334433639373337344132
33383130314646333038313935383030393445363136443635363434343631373436314131
39383330373434353334393443363937333734413237444134374241303135383030434393
45373436353732364536313643343336353732373441313032383030303832303146464135
32413030453830303534333438353034393445413130323830303038323031303041303130
30313034443631364536373435373837343635373236453631364334333635373237344131
32383030303832303146464130314138303131343136433730363836313435373837343537
32364536313643343336353732373441313032383030303832303130304130313938303134
32363537343631343537383734363537323645363136433433363537323734413130323830
30383230313030333038313939383030393445363136443635363434343631373436314131
44383330423434363137343631353336353734344336393733373441323744413437424130
35383030433439364537343635373236453631364334333635373237344131303238303038
32303146464135363241303045383030353433334383530343934454131303238303030383230
31303041303139383031303444363136453637343537383734363537323645363136433433336
35373237344131303238303030383230314646413031413830313134313643373036383631
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30313938303130343236353734363134353738373436353732364536313643343336353732
34413130323830303038323031303033303831394238303039344536313644363536343436
31373436314131304638333044343436313734363135333635373435333635364336353633
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32373441313032383030303832303146464135363241303045383030353433343830343934
45413130323830303038323031303041303139383031303444363136453637343537383734
35373236453631364334333635373237344131303238303030383230314646413031413830
31343136433730363836313435373837343635373236453631364334333635373237344131
32383030303832303130304130313938303134323635373436313435373837343635373236
45363136433433363537323734413130323830303038323031303038323036343135303439
46344634423930303 03C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D697452
6573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>877</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E820203A18201F7A08201F3301F800D417574686F72697A6174696F6E
A109860741434C4C697374A2038101FF30819580094E616D656444617461A10983074453494C
697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80054348
50494EA1028000820100A01980104D616E6745787465726E616C43657274A10280008201FFA0
1A8011416C70686145787465726E616C43657274A1028000820100A019801042657461457874
65726E616C43657274A10280008201003081998009 4E616D656444617461A10D830B44617461
5365744C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA1028000820100A01980104D616E6745787465726E616C43657274A1028000
```


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```
8201FFA01A8011416C70686145787465726E616C43657274A1028000820100A0198010426574
6145787465726E616C43657274A10280008201003081980094E616D656444617461A10F830D
4461746153657453656C656374A27DA47BA015800C496E7465726E616C43657274A102800082
01FFA562A00E8005434850494EA1028000820100A01980104D616E6745787465726E616C4365
7274A10280008201FFA01A8011416C70686145787465726E616C43657274A1028000820100A0
19801042657461457874657265726E616C43657274A10280008201008206415049 5F4F4B9000</Ou
tputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>878</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS2 DataSet
access rules. Ensure that the access rules
      for the recreated DataSet are the same as those specified in the
recreation.</description>
  <encodedData
type="xs:hexBinary">7F901E820203A18201F7A08201F3301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF30819580094E616D656444617461A109830744
53494C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80
05434850494EA1028000820100A01980104D616E6745787465726E616C43657274A102800082
01FFA01A8011416C70686145787465726E616C43657274A1028000820100A019801042657461
45787465726E616C43657274A10280008201003081980094E616D656444617461A10D830B44
6174615365744C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA5
62A00E8005434850494EA1028000820100A01980104D616E6745787465726E616C43657274A1
0280008201FFA01A8011416C70686145787465726E616C43657274A1028000820100A0198010
42657461457874657265726E616C43657274A10280008201003081980094E616D656444617461A1
0F830D4461746153657453656C656374A27DA47BA015800C496E7465726E616C43657274A102
80008201FFA562A00E8005434850494EA1028000820100A01980104D616E6745787465726E61
6C43657274A10280008201FFA01A8011416C70686145787465726E616C43657274A102800082
0100A019801042657461457874657265726E616C43657274A10280008201008206415049 5F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>879</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Selecte the 1-DS2 DataSet. Ensure that the recreated DataSet
can be selected.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>880</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>881</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323A5275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303130374638463735304341313041383030313030383130353331324434
353333323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>882</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>883</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4652D54432D53
657373696F6E49442D328100821C536D617274636172645369646 4652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>884</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
353043413130413830303130303831303533313244343435333332303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>885</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F750CA10A8001008105312D4453320000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>886</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F750CA10A8001008105312D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>887</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
```

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```
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F760882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>888</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>889</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 3E3746384637363038383230363431353034393546344634423930
30303C2F4F7574075744150445 0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>890</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>891</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>892</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A3374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637363038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>893</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

     <OutputAPDU>7F8F760882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>894</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Selecte the 1-DS2 DataSet.
Ensure that the recreated DataSet can be
     selected.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>895</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 1-DS2 DSI list. Ensure that the contents of the
recreated DataSet is empty.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>896</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>897</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D69656333A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463739303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>898</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>899</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>900</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
393035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>901</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7905A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>902</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7905A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>903</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F7A0CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>904</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F7A0CA102A00082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>905</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445553E37463846374130434131303241303030383230363431353O
343935463446344239303030 3C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>906</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>907</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>908</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374638463741304341313032413
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>909</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F7A0CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>910</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS2 DSI
list. Ensure that the contents of the recreated
     DataSet is empty.</description>
  <encodedData
type="xs:hexBinary">7F8F7A0CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>911</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the 1-DS2 DataSet again. Ensure that a recreated
DataSet can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F770CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>912</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453320000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>913</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
```

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54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303031303746384637373043413130413830303130303038313035333132443434
353333323030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>914</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>915</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>916</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
373043413130413830303130303831303533331324434343533333230303030 3C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>917</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453320000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>918</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F770CA10A8001008105312D44533200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>919</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F780882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>920</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>921</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E73652D786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323736746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384637383038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>922</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>923</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>924</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
```

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```
526573756C743E0A202020203C4F757470757441504455 3E3746384637383038383230363431
353034393546344634423930303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>925</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>926</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the 1-DS2 DataSet
again. Ensure that a recreated DataSet can be
     deleted.</description>
  <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>927</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the 1-DS3 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F770CA10A8001008105312D445333</encodedData>
</invAspect>
<invAspect>
  <refId>928</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>

  <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453330000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>929</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D22 726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303130374638463737304341313041383030313030383130353331324434
353333333030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>930</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>931</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>932</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746384637
3730434131304138303031303038313035333132443434353333333303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>933</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F8F770CA10A8001008105312D4453330000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>934</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F8F770CA10A8001008105312D44533300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>935</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F780882064150495F4F4B9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>936</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>937</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3184FCA181F9A03E801C536D617274636172645369646
2D53657373696F6E49442D328100821C536D617274636172645369646
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A20202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F757470757441504553E3746384637383038383230363431353034393546346344234393
30303C2F4F757470757441504553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>938</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>939</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>940</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637383038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>941</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>942</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the 1-DS3
DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>943</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dataSetDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the Access Log DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7710A10E80010081094163636573734C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>944</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7710A10E80010081094163636573734C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>945</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303134374638463737313041313045383030313030383130393431363336333
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>946</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>947</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>948</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433030303030303030303031343746384637
373130413130453830303130303038313039343136333633363537333733344336463637303030
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>949</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F7710A10E800100810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>950</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F7710A10E800100810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>951</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F780882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>952</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>953</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 53E3746384637383038383230363431353034393546344634423930
```

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```
30303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>954</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>955</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>956</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637383038383230363431
3530343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>957</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F780882064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>958</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the Access Log
DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>959</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A000000410000010001 application DataSet list.
Ensure that there are now no DataSets in the
    A00000041000010001 application.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>960</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
    Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
    <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
    </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>961</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
    from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303039374638463731303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>962</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>963</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>964</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384637
3130354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>965</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F7105A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>966</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F7105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>967</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>968</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>969</refId>
```

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```
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384637323043413130324130303038323634313530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>970</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>971</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>972</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384637323043413130324130
```

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```
303038323036343135303439354634463442393030303C2F4F7574707574415044553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>973</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F720CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>974</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 application DataSet list. Ensure that
     there are now no DataSets in the A00000041000010001
application.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>975</refId>
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify A00000041000010001's ACLModify access rule. Enable
ACLModify execution after the internal
     certificate DID has been deleted.</description>
  <encodedData
type="xs:hexBinary">7F901F5DA15B800100811043415244 2D4150504C49434154494F4EA2
0B8209A00000041000010001830D417574686F72697A6174696F6EA40B860941434C4D6F6469
6679A51BA01980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>976</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000617F901F5DA15B8001008110434152442D4150504C494341544
94F4EA20B8209A000000410000100018300D417574686F72697A6174696F6EA40B860941434C4
D6F64696679A51BA01980104D616E6745787465726E616C43657274A10280008201FF0000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>977</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201C1A18201BDA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201603C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303036313746393031463544413135423830303130303831313033433431 35
32343432443431353035303443343934333431353434393446344541323042383230394130 30
30303030343130303030313030303138333044343137353734363836463732363937413631 37
34363936463645413430423863303934313433344433444364636343639363637394135314241
303139383031303444363136453637343537383734363537323645363136433433363537323237
3441313032383030303832303146463030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>978</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>979</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```


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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>980</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820170A1820164808201603C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6966633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303036313746
393031463544413135423830303130303831313034333431353234343244343135303534 43
343934333431353434393446344541323042383230394130303030303034313030303030313030
303138333044343137353734363836463732363937413630373436393646364541343042383 6
303934313433344334443446463634363936363739413531424130313938303130344436313645
363734353738373436353732364536313643343336353732373441313032383030303832303 1
4646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>981</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000617F901F5DA15B800100811043415244 2D4150504C494341544
94F4EA20B8209A000000410000100018 30D417574686F72697A6174696F6EA40B860941434C4
D6F64696679A51BA01980104D616E6745787465726E616C43657274A10280008201FF0000</I
nputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>982</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000617F901F5DA15B8001008110434152442D4150504C494341
54494F4EA20B8209A0000004100001000183 0D417574686F72697A6174696F6EA40B86094143
4C4D6F64696679A51BA01980104D616E6745787465726E616C43657274A10280008201FF00</
encodedData>
</invAspect>
<invAspect>
  <refId>983</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>984</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>985</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
```

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```
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>986</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>987</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>988</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303033C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>989</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```


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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>990</refId>
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify
A00000041000010001's ACLModify access rule. Enable ACLModify
     execution after the internal certificate DID has been
deleted.</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>991</refId>
  <annexAId>59</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the Internal DID. Ensure that the DID state is true.
When this DID is recreated the state shall
     be false.</description>
  <encodedData
type="xs:hexBinary">7F901517A115800100A1028000820C496E7465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>992</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901517A115800100A1028000820C496E7465726E616C436
572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>993</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820134A1820130A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D43C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303142374639303135313741313135383030313030413130323830303038323
3043343936453734363537323645363136433433363537323734303030303C2F496E70757441
5044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>994</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>995</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>996</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031423746393031
353137413131353830303130303041313032383030303832304334393645373436353732364536
313643343336353732373430303030303C2F496E707574415044553E0A3C2F6E73323A5472616E
736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>997</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901517A115800100A1028000820C496E7465726E616C436
572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>998</refId>
  <annexAId>59</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001B7F901517A115800100A1028000820C496E7465726E616C
4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>999</refId>
  <annexAId>59</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90162CA122A020800C496E7465726E616C4365727481072881C117
030003A20280008301FF840082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1000</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
```

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```
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F90162CA122A020800C496E7465726E616C4365727481072881C117030003
A20280008301FF840082064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1001</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820145A1820141A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181FE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C52657375 6C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E37463930313632434131323241303230383030433439364 5
37343635373236453631364334333635373237343831303732383831433131373033300330 33
413230323830303038333031464638343030383230363431353034393546344634423930303 0
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>1002</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1003</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1004</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82010DA18201018081FE3C6E73323A5472616E736D69745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A202020203C4F7574707574415044553E3746393031363243413132323
4130323038303043343936453734363537323645363136433433363537323734383130373238
383143313137303330303033413230323830303038333031464638343030383303634313530
343935463446344239303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1005</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90162CA122A020800C496E7465726E616C4365727481072881C117030003
A20280008301FF840082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1006</refId>
  <annexAId>59</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the Internal DID.
Ensure that the DID state is true. When
     this DID is recreated the state shall be false.</description>
  <encodedData
type="xs:hexBinary">7F90162CA122A020800C496E7465726E616C4365727481072881C117
030003A20280008301FF840082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1007</refId>
  <annexAId>60</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the Internal DID. Ensure that that a DID, that is
reference in ACLs, can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F901913A111800100810C496E7465726E616C43657274</encodedD
ata>
</invAspect>
<invAspect>
  <refId>1008</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000177F901913A111800100810C496E7465726E616C43657274000
0</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1009</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012CA1820128A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181CC3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031373746393031393133413131313830303130303831304343436453734
3635373236453631364334333635373237343030303C2F496E707574415044553E0A3C2F6E
73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1010</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1011</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1012</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81DAA181CF8081CC3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031373746393031
393133413131313138303031303038313043343936453734363537323645363136433433363537
323734303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1013</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000177F901913A111800100810C496E7465726E616C43657274000
0</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1014</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000177F901913A111800100810C496E7465726E616C43657274
00</encodedData>
</invAspect>
<invAspect>
  <refId>1015</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1016</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1017</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
```

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```
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1018</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1019</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1020</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1021</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
```

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```
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1022</refId>
  <annexAId>60</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the internal DID.
Ensure that that a DID, that is reference in
      ACLs, can be deleted.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1023</refId>
  <annexAId>61</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the CHPIN DID. Ensure that an access rule
pointing to a non-existent DID fails. The
      DIDDelete action requires InternalCert authentication. However
InternalCert has been deleted.</description>
  <encodedData
type="xs:hexBinary">7F90190CA10A800100810543485049 4E</encodedData>
</invAspect>
<invAspect>
  <refId>1024</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F90190CA10A800100810543485049 4E0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1025</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031303746393031393043413130413830303130303831303534333438353
343934453030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>1026</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1027</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D3281008201C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1028</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746393031
393043413130413830303130303831303534333438353034393445303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1029</refId>
  <annexAId>61</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F90190CA10A80010081054348504 94E00 00</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1030</refId>
  <annexAId>61</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F90190CA10A800100810543485049 4E00</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1031</refId>
  <annexAId>61</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A2682244150495F534543555249545 95F434F4E444954494F4E
5F4E4F545F534154495346494 5449000</encodedData>
</invAspect>
<invAspect>
  <refId>1032</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>


  <OutputAPDU>7F901A2682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494549000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1033</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D697452657370F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E3746393031413233383232343431353034393546353334 35
343335353532343935343539354634333446344534343935343439344634455346344534 46
353435463533343135343439353334363439343534393030303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D697452657370F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1034</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1035</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1036</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746393031413236383232343434
313530343935463533343534333535353234393534353935463433344634453434393534343
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1037</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901A2682244150495F5345435524954595F434F4E444954494F4E5F4E4F
545F534154495346494544900</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1038</refId>
  <annexAId>61</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to delete the
CHPIN DID. Ensure that an access rule pointing
     to a non-existent DID fails. The DIDDelete action requires InternalCert
authentication. However InternalCert has been
     deleted.</description>
  <encodedData
type="xs:hexBinary">7F901A2682244150495F5345435524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>1039</refId>
  <annexAId>62</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Modify A00000041000010001's DIDDelete access rule. Remove the
deleted Internal DID from the DIDDelete
      access rule. This shall enable the deletion of DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F64A16280010081104341524 42D4150504C49434154494F4EA2
0B8209A000000410000100018314446966666572656E7469616C4964656E74697479A40B8509
44494444656C657465A51BA01980104D616E6745787465726E616C43657274A10280008201FF
</encodedData>
</invAspect>
<invAspect>
  <refId>1040</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000687F901F64A16280010081104341524 42D4150504C494341544
94F4EA20B8209A000000410000100018314446966666572656E7469616C4964656E74697479A
40B850944494444656C657465A51BA01980104D616E6745787465726E616C43657274A102800
08201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1041</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318201CFA18201CBA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182016E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
32303030303030303036383746393031463634413136323830303130303831313033433431 35
32343432443431353035303443343934333431353434393446344541323042383230394130 30
30303030343130303030313030303138333134343436393636363636353732363536453734 36
39363136433439363436353645373436393734373941343042383530393434343934343436 35
35643363537343635413531424130313938303130344436313645363734353738373436353 7
32364536313643343336353732373441313032383030303832303146463030303C2F496E70
7574415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1042</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1043</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1044</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82017EA18201728082016E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D6128E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E303043323030303030303036383746
393031463634413136323830303130303831313034333431353234343244343135303530443
343934333431353434393446344541323042383230394130303030303034313030303031303030
303138333134343436393636363636353732363536453734363936313643343936343635364
373436393734373941343042383530393434343934343434363536433635373436354135314
241303139383031303444363136453637343537383734363537323645363136433433363537327
373441343032383030303832303146463030303C2F496E707574415044553E0A3C2F6E7332
3A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1045</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C200000000687F901F64A16280010081104341524 42D4150504C494341544
94F4EA20B8209A0000004100001000183144469666665726 56E7469616C4964656E74697479A
40B850944494444656C657465A51BA01980104D616E6745787465726E616C43657274A102800
08201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1046</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000687F901F64A16280010081104341524 42D4150504C494341
54494F4EA20B8209A0000004100001000183144469666665726 56E7469616C4964656E746974
79A40B850944494444656C657465A51BA01980104D616E6745787465726E616C43657274A102
80008201FF00</encodedData>
</invAspect>
<invAspect>
  <refId>1047</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1048</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1049</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1050</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1051</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1052</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
```

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```
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1053</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1054</refId>
  <annexAId>62</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify
A00000041000010001's DIDDelete access rule. Remove the deleted
     Internal DID from the DIDDelete access rule. This shall enable the
deletion of DIDs.</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1055</refId>
  <annexAId>63</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the CHPIN DID. This shall now succeed.</description>
  <encodedData
type="xs:hexBinary">7F90190CA10A800100810543485049 4E</encodedData>
</invAspect>
<invAspect>
  <refId>1056</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>

  <InputAPDU>00C200000000107F90190CA10A80010081054348504 94E0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1057</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736368 7274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D536573 73696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D22 5 726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D6123E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
30303030303030303031303746393031393043413130413830303130303831303534333438353 0
343934453030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>1058</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1059</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645 36964652D54432D53
657373696F6E49442D328100821C536D617274636172645 36964652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1060</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746393031
393043413130413830303130303831303534333438353034393445303030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1061</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F90190CA10A800100810543485049 4E0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1062</refId>
  <annexAId>63</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000107F90190CA10A800100810543485049 4E00</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1063</refId>
  <annexAId>63</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A0882064150495F4F4B9000</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1064</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1065</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3184FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A2020202033C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F75747075744154553E3746393031413038383230363431353034393546344634423930
30303C2F4F75747075744154553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1066</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1067</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1068</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1069</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1070</refId>
  <annexAId>63</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the CHPIN DID. This
shall now succeed.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1071</refId>
  <annexAId>64</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the AlphaExternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901918A1168001008111416C70686145787465726E616C43657274
</encodedData>
</invAspect>
<invAspect>
  <refId>1072</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001C7F901918A1168001008111416C70686145787465726E616C4
36572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1073</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820136A1820132A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E657482C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303143374639303139313841313136383030313030383131313431364337303
36383631343537383734363537323645363136433433363537323734303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1074</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1075</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1076</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E733A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616D6C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031433746393031
393138413131363830303130303831313134313643373036383631343537383734363537323 6
453631364334333635373237343030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1077</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001C7F901918A1168001008111416C70686145787465726E616C4
36572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1078</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001C7F901918A1168001008111416C70686145787465726E61
6C4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>1079</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1080</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1081</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E3746393031413038383230363431353034393546344634423930
```

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```
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1082</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1083</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1084</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031413038383230363431
353034393546344634423939303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1085</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```


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```
        <Result>IFD_OK</Result>

        <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1086</refId>
  <annexAId>64</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the
AlphaExternalCert DID.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1087</refId>
  <annexAId>65</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the BetaExternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901917A11580010081104265746145787465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1088</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

        <SlotHandle>00</SlotHandle>

        <InputAPDU>00C2000000001B7F901917A11580010081104265746145787465726E616C436
572740000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1089</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820134A1820130A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D43C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031423746393031393137413131353830303130303831313034323635373 4
363134353738373436353732364536313643433336353732373430303030 3C2F496E70757441
5044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1090</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1091</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696 4652D54432D53
657373696F6E49442D328100821C536D6172746361726453696 4652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1092</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031423746393031
393137413131353830303130303831313034323635373436313435373837343635373236453 6
313643343336353732373430303030303C2F496E707574415044553E0A3C2F6E73323A5472616E
736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1093</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901917A1158001008110426574614578746572 6E616C436
572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1094</refId>
  <annexAId>65</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001B7F901917A1158001008110426574614578746572 6E616C
4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>1095</refId>
  <annexAId>65</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1096</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

       <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1097</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D6172746361726453696465 2D5443
2D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323 73A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031413038383230363431333034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1098</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1099</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1100</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E374639303141303838323036343 1
353034393546344634423934303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1101</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1102</refId>
  <annexAId>65</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the
BetaExternalCert DID.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1103</refId>
  <annexAId>66</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify A00000041000010001's ACLModify access rule. Remove all
restrictions on the ACLModify action.</description>
  <encodedData
type="xs:hexBinary">7F901F45A1438001008110434152442D4150504C49434154494F4EA2
0B8209A00000041000010001830D417574686F72697A6174696F6EA40B860941434C4D6F6469
6679A5038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>1104</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000497F901F45A1438001008110434152442D4150504C494341544
94F4EA20B8209A000000410000100018300D417574686F72697A6174696F6EA40B860941434C4
D6F64696679A5038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1105</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820191A182018DA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201303C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A786368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030343937463930314634354131343338303031303038313130343334313
5323434324434313530353034433439343334313534343934463445413230423832303941303
3030303034313030303031303030313833304434313735373436383646373236393741363137
343639364636454134304238363039343134333443344436463634363936363739413530333
8313031464630303030 3C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>1106</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1107</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1108</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820140A1820134808201303C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303034393746
393031463435413134333383030313030383131303433343135323434324434313535303443
343934333431353434393446344541323042383230394130303030303030343130303030313030
303138333044343137353734363836463732363937413631373436393646364541343042383636
303934313433344334443646363436393636373941353033383130314646303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1109</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000497F901F45A1438001008110434152442D4150504C494341544
94F4EA20B8209A000000410000100018 30D417574686F72697A6174696F6EA40B860941434C4
D6F64696679A5038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1110</refId>
  <annexAId>66</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">00C20000497F901F45A1438001008110434152442D4150504C494341
54494F4EA20B8209A0000004100001000183OD417574686F72697A6174696F6EA40B86094143
4C4D6F64696679A5038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>1111</refId>
  <annexAId>66</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1112</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1113</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E374639303230303838323036343135303439354634463423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1114</refId>
```

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```
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1115</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1116</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A73368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1117</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1118</refId>
  <annexAId>66</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify
A00000041000010001's ACLModify access rule. Remove all
     restrictions on the ACLModify action.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1119</refId>
  <annexAId>67</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the MangExternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901917A11580010081104D616E6745787465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1120</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901917A11580010081104D616E6745787465726E616C436
572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1121</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820134A1820130A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
```

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```
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D43C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303142374639303139313741313135383030313030383131303444363136
3637343537383734363537323645363136433433363537323734303030303C2F496E70757441
5044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1122</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1123</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1124</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031423746393031
393137413131353830303130303831313034443631364536373435373837343635373236456
3136433433363537323734303030303C2F496E707574415044553E0A3C2F6E73323A5472616E
736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1125</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901917A11580010081104D616E6745787465726E616C436
572740000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1126</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001B7F901917A11580010081104D616E6745787465726E616C
4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>1127</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object. Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1128</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1129</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645364964652D5443
2D53657373696F6E49442D328100821C536D617274636172645364964652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323730A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1130</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1131</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1132</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
```

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```
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746393031413038383230363431
353034393546344634423930303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1133</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1134</refId>
  <annexAId>67</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the
MangExternalCert DID.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1135</refId>
  <annexAId>68</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000010001 card application DID list.
Ensure that there are no DIDs in the
     A00000041000010001 application.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>1136</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
```

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```
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F901105A1038001000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1137</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D22 5726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D612 3E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374639303131303541313033383030313030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1138</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1139</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645 36964652D54432D53
657373696F6E49442D328100821C536D617274636172645 36964652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1140</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746393031
3130354131303338303031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1141</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F901105A103800100000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1142</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F901105A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>1143</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1144</refId>
  <annexAId>68</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90120CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1145</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820105A1820101A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181BE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031323043413130324130303038323036343135530
343935463446344239303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1146</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1147</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1148</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445553E3746393031323034413130324130
3030383230363431353034393546344634423930303C2F4F7574075744150445553E0A3C2F
6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1149</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90120CA102A00082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1150</refId>
  <annexAId>68</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application DID list. Ensure that
     there are no DIDs in the A00000041000010001 application.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1151</refId>
  <annexAId>69</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Attempt to delete the MangExternalCert DID again. We do not
have permission to delete a non-existent DID
      as the DIDDelete access rule requires MangExternalCert authentication.
The MangExternalCert DID has been deleted.</description>
  <encodedData
type="xs:hexBinary">7F901917A11580010081104D616E6745787465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1152</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901917A11580010081104D616E6745787465726E616C436
572740000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1153</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820134A1820130A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D43C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303142374639303139313741313135383030313030383131303444363136 45
3637343537383734363537323645363136433433363537323734303030303C2F496E70757441
5044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1154</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1155</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1156</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031423746393031
393137413131353830303130303831313034443631364536373435373837343635373236453 6
313643343336353732373430303030 3C2F496E707574415044553E0A3C2F6E73323A5472616E
736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1157</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901917A11580010081104D616E6745787465726E616C436
572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1158</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001B7F901917A11580010081104D616E6745787465726E616C
4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>1159</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A2682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544 9000</encodedData>
</invAspect>
<invAspect>
  <refId>1160</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901A2682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544 9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1161</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
```

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73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E37463930314132363832323434313530343935463533343 5
343335353532343935343539354634333446344534343439353434393446344535463445344 6
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1162</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1163</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1164</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E37463930314132363832323434
313530343935463533343534333535353234393534353935463433344634453434343935343 4
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1165</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901A2682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544 9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1166</refId>
  <annexAId>69</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to delete the
MangExternalCert DID again. We do not have
      permission to delete a non-existent DID as the DIDDelete access rule
requires MangExternalCert authentication. The
      MangExternalCert DID has been deleted.</description>
  <encodedData
type="xs:hexBinary">7F901A2682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>1167</refId>
  <annexAId>70</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify A00000041000010001's DIDDelete access rule. Remove all
restrictions on the DIDDelete action. As
      all of the DIDs have been deleted, we can not authenticate against any
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F4CA14A800100811043415244D4150504C49434154494F4EA2
0B8209A00000041000010001831444696666572656E7469616C4964656E74697479A40B8509
44494444656C657465A5038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>1168</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F901F4CA14A800100811043415244 2D4150504C494341544
94F4EA20B8209A0000004100001000183144469666665726 56E7469616C4964656E74697479A
40B850944494444656C657465A5038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1169</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172746361726 42D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D22 75726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61 223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020 203C496E707574415044553E303043
32303030303030303035303746393031463443413134413830303130303831313034333431 35
32343432443431353035303443343934333431353 43439344634454132304238323039413030
30303030343130303030313030303138333134343436393636363636353732363536453734 36
39363136433439363436353645373436393739413430423835303934343439343434343436
353643363537343635413530333831303146463030303C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1170</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1171</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1172</refId>
  <annexAId>70</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
393031463443413134413830303130303831313034333431353234343244343135303530344 3
343934333431353434393446344541323042383230394130303030303034313030303030313030
303138333134343436393636363636353732363536453734363936313643343936343635364 5
373436393734373941343042383530393434343934343436353643363537343635413530333
383130314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1173</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000000507F901F4CA14A800100811043415244 2D4150504C494341544
94F4EA20B8209A000000410000100018314446966666572656E7469616C4964656E74697479A
40B85094449444465 6C657465A5038101FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1174</refId>
  <annexAId>70</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F901F4CA14A800100811043415244 2D4150504C494341
54494F4EA20B8209A000000410000100018314446966666572656E7469616C4964656E746974
79A40B850944494444656C657465A5038101FF00</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1175</refId>
  <annexAId>70</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1176</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1177</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1178</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1179</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1180</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303033C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1181</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
     <encodedData>
       <ns2:TransmitResponse>

        <Result>IFD_OK</Result>

        <OutputAPDU>7F902008820641504 95F4F4B9000</OutputAPDU>
       </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1182</refId>
  <annexAId>70</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify
A00000041000010001's DIDDelete access rule. Remove all
     restrictions on the DIDDelete action. As all of the DIDs have been
deleted, we can not authenticate against any DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1183</refId>
  <annexAId>71</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the MangExternalCert DID again. Ensure that
a deleted DID can not be deleted.</description>
  <encodedData
type="xs:hexBinary">7F901917A11580010081104D616E6745787465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1184</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901917A11580010081104D616E6745787465726E616C436
572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1185</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820134A1820130A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D43C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
```

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```
303030303030303031423746393031393137413131353830303130303831313034443631364536373435373837343635373236453631364334333635373237343030303C2F496E70757441
5044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1186</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1187</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1188</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A2020203C496E707574415044553E3030433230303030303030303031423746393031
3931374131313538303031303038313130344436313645363734353738373436353732364536
313643343336353732373430303030 3C2F496E707574415044553E0A3C2F6E73323A5472616E
736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1189</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901917A11580010081104D616E6745787465726E616C436
572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1190</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001B7F901917A11580010081104D616E6745787465726E616C
4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>1191</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A1C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E449000</encodedData>
</invAspect>
<invAspect>
  <refId>1192</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901A1C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1193</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820125A1820121A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181DE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031413143383231413431353033439354634453431
344434353434354634353445353434393534353935463445344635343634363445353445
3434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1194</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1195</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
65737369 6F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1196</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
```

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```
526573756C743E0A202020203C4F757470757441504455 3E3746393031413143383231413431
353034393546344534313444343534343546343534453534343935343539354634453463534
354634363446353534453434393030303C2F4F757470757441504455 3E0A3C2F6E73323A5472
616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1197</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901A1C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1198</refId>
  <annexAId>71</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to delete the
MangExternalCert DID again. Ensure that a
     deleted DID can not be deleted.</description>
  <encodedData
type="xs:hexBinary">7F901A1C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>1199</refId>
  <annexAId>72</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify A00000041000010001's DIDCreate access rule. Remove all
restrictions on the DIDCreate action.</description>
  <encodedData
type="xs:hexBinary">7F901F4CA14A800100811043415244 2D4150504C49434154494F4EA2
0B8209A000000410000100018314446966666572656E7469616C4964656E74697479A40B8509
4449444372656174 65A5038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>1200</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F901F4CA14A800100811043415244 2D4150504C494341544
94F4EA20B8209A000000410000100018314446966666572656E7469616C4964656E74697479A
40B85094449444437265617465A5038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1201</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182019FA182019BA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182013E3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303035303746393031463443413131344138303031303038313130343334313 5
3234343244343135303130344334393433343135343439344634454132304238323039413030
3030303034313030303031303030313833313434343639363636363635373236353645373436
3936313643343936343635364537343639373437394134304238353039343434393434343337
3236353631373436354135303338313031464630303030 3C2F496E707574415044553E0A3C2F
6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1202</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1203</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1204</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82014EA18201428082013E3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303035303746
393031463443413134413830303130303831313034333431353234343244343431353035303443
343934333431353434393446344541323042383230394130303030303034313030303030313030
303138333134343436393636363636353732363536453734363936313643343936343635365
373436393734373941343042383530393434343934343433373236353631373436354135303
383130314646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1205</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000507F901F4CA14A800100811043415244D4150504C494341544
94F4EA20B8209A000000410000100018314446966666572656E7469616C4964656E74697479A
40B8509444944437265617465A5038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1206</refId>
  <annexAId>72</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000507F901F4CA14A800100811043415244 2D4150504C494341
54494F4EA20B8209A0000004100001000183144469666665726 56E7469616C4964656E746974
79A40B85094449444437265617465A5038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>1207</refId>
  <annexAId>72</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90200882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1208</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1209</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445 53E3746393032303038383230363431353034393546344634423930
30303C2F4F7574075744150445 53E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1210</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1211</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1212</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344434423934423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D697452657373706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1213</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>
```

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```
      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
    </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1214</refId>
  <annexAId>72</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify
A00000041000010001's DIDCreate access rule. Remove all
    restrictions on the DIDCreate action.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1215</refId>
  <annexAId>73</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Internal DID again. Ensure that a deleted DID can
be recreated.</description>
  <encodedData
type="xs:hexBinary">7F90138201C4A18201C0800100810C496E7465726E616C4365727482
072881C117030003A3028000A482019E301C800D43727970746F67726170686963A106840453
69676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A203
8101FF3020800D43727970746F67726170686963A10A840844656369706865 72A20382010030
20800D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726
6E7469616C4964656E74697479A10885064449444765 74A2038101FF3027800D43727970746F
67726170686963A111840F5665726966795369676E6174757265A203820100302880144469666
666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101FF302980
0D43727970746F67726170686963A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F4449444175746865
6E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>1216</refId>
  <annexAId>73</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
    Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
    <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CA7F90138201C4A18201C0800100810C496E7465726E616C436
5727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A10
684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697
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374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686572A2038
201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100302
1800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D4
3727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
66572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727
970746F67726170686963A111840F566572696679536967 6E6174757265A2038201003028801
4446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101F
F3029800D43727970746F67726170686963A113841156657269667943657274696669636174 6
5A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444944417
57468656E746963617465A2038101FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1217</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820493A182048FA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818204323C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303031434137463930313338323031433441313832303143303830303130303 8
313043343936453734363537323645363136433433363537323734383230373238383143313 1
373033303030334133303238303030413438323031394533303143383030443433337323739 37
303734364636373732363137303638363936334131303638343034353336393637364541323 0
333832303130303330314638303044343137353734363836463732363937413631373436393 6
463645413130393836303734313433443344336393733373441323033383130314646333032
303830304434333732373937303734364636373732363137303638363936334131304138343 0
383434363536333639373036383635373241323033383230313030333032303830304434333 7
323739373037343646363737323631373036383639363341313041383430384353645363336
393730363836353732413230333832303130303330323138303044343137353734363836463 7
323639374136313734363936463645413130423836303934313433344334443646363436393 6
363739413230333831303146463330323138303044343337323739373037343646363737323 6
313730363836393633413130423834303934373635373435323631364536343646364644413230
333832303130303330323538303134343436393636363636353732363536453734363936313 6
433439363436353645373436393734373941313038383530363434343934343437363537344 1
323033383130314646333032373830304434333732373937303734364636373732363137303 6
383639363341313131383430463536363537323639363637393533363936373645363137343 7
353732363541323033383230313030333032383830313434343639363636363653732363536
453734363936313643343936343635364537343639373437394131304238353039343434393 4
343535373036343631373436354132303338313031464633303239383030443433337327379 37
303734364636373732363137303638363936334131313338343131353636353732363936363 7
393433363537323734363936363639363336313734363541323033383230313030333032453 8
303134343436393636363636353732363536453734363936313643343936343653645373436
393734373941313131383530463434343934343431373537343638363536453734363936333 6
313734363541323033383130314646303030303C2F496E707574415044553E0A3C2F6E73323A
5472616E736D69743E
</invAspect>
<invAspect>
  <refId>1218</refId>
  <annexAId>73</annexAId>

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1219</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1220</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820442A1820436808204323C6E73323A5472616E736D697420
786D6C6E733A6E73323D22757 26E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303143413746
393031333832303143344 13832303143303830303130303831304334393645373436353732
364536313643343336 3373237343832303732383831433131373033303033033413330323830
303041343832303139 4533303143383030443433373237393730373436463637373236313730
363836393633413130 3638343034353336393637364541323033383230313030333031463830
304434313735373436383646373236393741363137343639364636454131303938363037343 1
343334433443363937333734413230333831303146463330323038303044343337323739393730
373436463637373236 3137303638363936334131304138343038343536453633363937303638363537 3241323033
383230313030333032 3138303044343137353734363836463732363937413631373436393646
364541313042383630393431343334433444364636343639363637394132303338313031 4646
333032313830304434333732373937303734364636373732363137303638363936341313042
383430393437363537343532363136453634364636444132303338323031303033303235383 0
313434343639363636363635373236353645373436393631364334393634363536453734363 9
373437394131303838353036343434393434343736353734413230333831303146463330323 7
383030443433373237393730373436463637373236313730363836393633413131313138343046
353636353732363936363739353336393637364536313734373537323635413230333832303 1
303033303238383031343434363936363636363537323635364537343639363136433439363 4
363536453734363937343739413130423835303934343439343435353730363436313734363 5
413230333831303146463330323938303044343337323739373037343646363737323631373 0
363836393633413131313338343131353636353732363936363739343336353732373436393636
363936333631373436354132303338323031303033303245383031343434363936363636363 5
373236353645373436393631364334393634363536453734363937343739413131313138353046
343434393434343137353734363836353645373436393633363137343635413230333831303 1
```

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```
4646303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1221</refId>
  <annexAId>73</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CA7F90138201C4A18201C0800100810C496E7465726E616C436
5727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A10
684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697
374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A2038
201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100302
1800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D4
3727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
66572656E7469616C4964656E74697479A1088506449444476574A2038101FF3027800D43727
970746F67726170686963A111840F566572696679536969676E6174757265A2038201003028801
4446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101F
F3029800D43727970746F67726170686963A1138411566572696679436572746966696361746
5A203820100302E80144469666666572656E7469616C4964656E74697479A111850F444944417
57468656E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1222</refId>
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F90138201C4A18201C0800100810C496E7465726E616C
4365727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963
A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A2
038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF302180
0D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469
66666572</encodedData>
</invAspect>
<invAspect>
  <refId>1223</refId>
```


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```
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>1224</refId>
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000CB656E7469616C4964656E74697479A10885064449444765
74A2038101FF3027800D43727970746F67726170686963A111840F5665726966795369676E61
74757265A203820100302880144469666665726 56E7469616C4964656E74697479A10B850944
4944557064617465A2038101FF3029800D43727970746F67726170686963A113841156657269
667943657274696669636174 65A203820100302E80144469666665726 56E7469616C4964656E
74697479A111850F44494441757468656E746963617465A2038101FF00</encodedData>
</invAspect>
<invAspect>
  <refId>1225</refId>
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1226</refId>
  <annexAId>73</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>1227</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031343038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1228</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1229</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1230</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
```

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```
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031343038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1231</refId>
  <annexAId>73</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1232</refId>
  <annexAId>73</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Internal DID
again. Ensure that a deleted DID can be
     recreated.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1233</refId>
  <annexAId>74</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the Internal DID. Ensure the DID state is
false.</description>
  <encodedData
type="xs:hexBinary">7F901517A115800100A1028000820C496E7465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1234</refId>
  <annexAId>74</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
```

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```
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901517A115800100A1028000820C496E7465726E616C436
572740000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1235</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820134A1820130A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D43C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031423746393031353137431313538303031303041313032383030303832
304334393645373436353732364536313643343336353732373430303030303C2F496E70757441
5044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1236</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1237</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1238</refId>
  <annexAId>74</annexAId>
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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031423746393031
353137413131353830303130304131303238303030383230433439364537343635373236453636
313643343336353732373430303030303C2F496E707574415044553E0A3C2F6E73323A5472616E
736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1239</refId>
  <annexAId>74</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901517A115800100A1028000820C496E7465726E616C436
572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1240</refId>
  <annexAId>74</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001B7F901517A115800100A1028000820C496E7465726E616C
4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>1241</refId>
  <annexAId>74</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90162CA122A020800C496E7465726E616C4365727481072881C117
030003A2028000830100840082064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1242</refId>
  <annexAId>74</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90162CA122A020800C496E7465726E616C4365727481072881C117030003
A2028000830100840082064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1243</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820145A1820141A03E801C536D617274636172645369646652D
54432D536573736F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181FE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031363243413132324130323038303043343936 45
373436353732364536313643343336353732373438313037323838314331313737303330303033
413230323830303038333031303038343030383230363431353034393546344634423930303 0
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>1244</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1245</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1246</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82010DA18201018081FE3C6E73323A5472616E736D69745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A2020202034F7574707574415044553E374639303136324341313232
4130323038303043343936453734363537323645363136433433363537323734383130373238
3831433131373033303030334132303238303030383330313030383430303832303634313530
343935463446344239303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D
6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1247</refId>
  <annexAId>74</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90162CA122A020800C496E7465726E616C4365727481072881C117030003
A202800083010084008 2064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
```


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```
  <refId>1248</refId>
  <annexAId>74</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didGet</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the Internal DID.
Ensure the DID state is false.</description>
  <encodedData
type="xs:hexBinary">7F90162CA122A020800C496E7465726E616C4365727481072881C117
030003A2028000830100840082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1249</refId>
  <annexAId>75</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Management external DID. First create the DIDs
then restrict the DID modification permissions.
     The modification access rules refer to the Internal and External DIDs.
One of these may not have yet been created.</description>
  <encodedData
type="xs:hexBinary">7F90138201C8A18201C480010081104D616E6745787465726E616C43
65727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B86941434C4D6F64696679A2038101FF3021800D
43727970746F67726170686963A10B840947857452616E646F6DA203820100302580144469666
666572656E7469616C4964656E74697479A10885064449444476574A2038101FF3027800D4372
7970746F67726170686963A111840F5665726966795369676E6174757265A203820100302880
144469666666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>1250</refId>
  <annexAId>75</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CE7F90138201C8A18201C480010081104D616E6745787465726
E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686
572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2038
```

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```
201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3
021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025801
4446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF30278
00D43727970746F67726170686963A111840F566572696679536967 6E6174757265A20382010
0302880144469666666572656E7469616C4964656E74697479A10B85094449445570646174 65A
2038101FF3029800D43727970746F67726170686963A113841156657269667943657274696 66
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1251</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182049BA1820497A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182043A3C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303143453746393031333832303143384131383230314334383030313030 38
3131303444363136453637343537383734363537323645363136433433363537323734383230
3732383831433131313730333030303034333032383030304134383230313945333031433830 30
4434333732373937303734364636373732363137303638363936334131303638343034353336
3936373645413230333832303130303330314638303044343137353734363836463732363937
4136313734363936463645413130393836303734313433344334433639373337344132303338
3130314646333032303830304434333732373937303734364636373732363137303638363936
3341313041383430383434363536333639373036383635373241323033383230313030333032
3038303044343337323739373037343646363737323631373036383639363341313041383430
3834353645363336393730363836353732413230333832303130303330323138303044343137
3537343638364637323639374136313734363936463645413130423836303934313433344334
4436463634363936363739413230333831303146463330323138303044343337323739373037
3436463637373236313730363836393633413131304238343039343736353734353236313645 36
3436463644132303338323031303033303235383031343434363936363636363532363536
4537343639363136433439363436353645373436393734373941313038383530363434343934
3434373635373441323033383130314646333032373830304434333732373937303734364636
3737323631373036383639363341313131383430463536363537323639363637393533363936
3736453631373437353732363541323033383230313030333032383830313434343639363636
3636353732363536453734363936313643343936343635364537343639373437394131304238
3530393434343934343535373036343631373436354132303338313031464633303239383030
4434333732373937303734364636373732363137303638363936334131313338343131353636
3537323639363637393433336353732373436393636363936333631373436354132303338323 0
3130303330324538303134343436393636363636353732363536453734363936313643343936
3436353645373436393734373941313131383530463434343934343431373537343638363536
4537343639363336313734363541323033383130314646303030303C2F496E70757441504455
3E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1252</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```


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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1253</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1254</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82044AA182043E8082043A3C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504455 3E3030433230303030303030303143453746
393031333832303143384131383230314334383030313030383131303444363136453637 3435
373837343635373236453631364334333635373237343832303732383831433131373033303 0
303341333032383030304134383230313945333031433830304434333732373937303743646
363737323631373036383639333413130363834303435333639363736454132303338323031
303033303146383030443431373537343638364637323639374136313734363936463645413 1
303938363037343134333443344336393733373441323033383130314646333032303830304 4
343337323739373037343646363737323631373036383639363341313041383430383435363 5
363336393730363836353732413230333832303130303330323038303044343337323739373 0
373436463637373363137303638363936334131304138343038343536453633639370363 8
363537324132303338320301303033303231383030443431373537343638364637323639374 1
363137343639364636454131304238363039343134333443344436463634363936363739413 2
303338313031464633303231383030443433373237393730373436463637373236313730363 8
363936341313042383430393437363537343532363136453634364636446413230333832303 1
303033032353830313434343639363636363635373236353645373436393631364334393634
363536453734363937343739413130383835303634343439343434373635373441323033383 1
303146463330323738303044343337323739373037343646363737323631373036383639363 3
413131313834304635363635373236393636373935333639363736453631373437353732363 5
413230333832303130303330323838303134343436393636363636353732363536453734363 9
363136433439363436353645373436393734373941313042383530393434343934343535373 0
363436313734363541323033383130314646333032393830304434333732373937303743646
363737323631373036383639363341313133383431313536363537323639363637393433363 5
373237343639363636393633363137343635413230333832303130303330324538303134343 4
363936363636363537323635364537343639363136433439363436353645373436393633363 9
413131313835304634343439343434313735373436383635364537343639363336313734363 5
413230333831303146463030303C2F496E707574415044553E0A3C2F6E73323A5472616E73
6D69743E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1255</refId>
  <annexAId>75</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000001CE7F90138201C8A18201C480010081104D616E6745787465726
E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261706
86963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607414
34C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686
572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2038
201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3
021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025801
4446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF30278
00D43727970746F67726170686963A111840F566572696679536967 6E6174757265A20382010
0302880144469666666572656E7469616C4964656E74697479A10B85094449445570646174 65A
2038101FF3029800D43727970746F67726170686963A113841156657269667943657274696 66
963617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4
4494441757468656E746963617465A2038101FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1256</refId>
  <annexAId>75</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">10C20000FF7F90138201C8A18201C480010081104D616E6745787465
726E616C4365727482072881C117030003A3028000A482019E301C800D43727970746F677261
70686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA1098607
41434C4C697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970
686572A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A2
038201003021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101
FF3021800D43727970746F67726170686963A10B840947657452616E646F6DA2038201003025
80144469</encodedData>
</invAspect>
<invAspect>
  <refId>1257</refId>
  <annexAId>75</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData type="xs:hexBinary">9000</encodedData>
</invAspect>
<invAspect>
  <refId>1258</refId>
  <annexAId>75</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000CF66666572656E7469616C4964656E74697479A108850644
4944476574A2038101FF3027800D43727970746F6772617068696A111840F56657269667953
69676E6174757265A203820100302880144469666666572656E7469616C4964656E74697479A1
0B85094449445570646174657A2038101FF3029800D43727970746F67726170686963A1138411
566572696679436572746966696361746 5A203820100302E80144469666666572656E7469616C
4964656E74697479A111850F44494441757468656E74696361746 5A2038101FF00</encodedD
ata>
</invAspect>
<invAspect>
  <refId>1259</refId>
  <annexAId>75</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90140882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1260</refId>
  <annexAId>75</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1261</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A323437323736746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E3746393031343038383230363431353034393546344634423930
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1262</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1263</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
65737369 6F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1264</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
```

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526573756C743E0A202020203C4F757470757441504455 3E3746393031343038383230363431
353034393546344634423930303C2F4F757470757441504455 3E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1265</refId>
  <annexAId>75</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F90140882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1266</refId>
  <annexAId>75</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Management external DID. First create the DIDs then
      restrict the DID modification permissions. The modification access rules refer to the Internal and External DIDs. One
      of these may not have yet been created.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1267</refId>
  <annexAId>76</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Set the ACLModify access rule to first require authentication of the internal and external management
      certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C8001008115444946464552454E5449414C2D4944454E
54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>1268</refId>
  <annexAId>76</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>

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```
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000827F901F7EA17C80010081154449464645524 54E5449414C2D4
944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008
201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1269</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820203A18201FFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696 4652D54432D53657373696F6E49442D32818201A23C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
323030303030303030383237463930314637454131374338303031303038313135343434393 4
3634363435353234353435353434393431344332443439343435344535343439353435394 1
323045383130433439364537343635373236453631364334333635373237343833304434313 7
353734363836463732363937413631373436393646364541343042383630393431343334433 4
443646363436393636373941353334413433324130313538303043439364537343635373236
453631364334333635373237344131303238303030383230314646413031393830313034443 6
313645363734353738373436353732364536313643343336353732373441313032383030303 8
323031464630303030 3C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>1270</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1271</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1272</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201B2A18201A6808201A23C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6956633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038323746
393031463745413137433830303130303831313534343439343634363435353234353453 4
343934313443324434393434343534455353434393534353941323045383130433439364537 4
363537323645363136433433363537323734383330443431373537343638364637323639374 1
363137343639366463645413430423836303934313433443344364636343639363637394135
333441343332413031353830304334393645373436373732364536313643343363537323734
413130323830303038323031464641303139383031303444363136453637343537383734363 5
373236453631364334333635373237344131302383030303832303146463030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1273</refId>
  <annexAId>76</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000827F901F7EA17C800100811544494646455245 4E5449414C2D4
944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008
201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1274</refId>
  <annexAId>76</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000827F901F7EA17C80010081154449464645524 54E5449414C
2D4944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A617469
6F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1275</refId>
  <annexAId>76</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F9020088206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1276</refId>
  <annexAId>76</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

     <OutputAPDU>7F9020088206415049 5F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1277</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393032303038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1278</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1279</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1280</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393032303038383230363431
353034393546344634423930303030 3C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1281</refId>
  <annexAId>76</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F90200882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1282</refId>
  <annexAId>76</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Set the ACLModify access
rule to first require authentication of the
      internal and external management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1283</refId>
  <annexAId>77</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to modify Internal DID's ACLModify access rule. This
attempt shall fail as the DID state has been
      cleared. Ensure that the state of a recreated DID is
false.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C80010081154449464645524 54E5449414C2D4944454E
54495459A20E810496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>1284</refId>
  <annexAId>77</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000827F901F7EA17C80010081154449464645524 54E5449414C2D4
```

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```
944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008
201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1285</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820203A18201FFA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201A23C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A20202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504455 3E303043
323030303030303030303832374639303146374541313743383030313030383131353434343934
363436343535323435344553534343934313443324434393434343534455353434393534353941
323045383130433439364537343635373236453631364334333635373237343833304434313 7
353734363836463732363937413631373436393646344541343042383630393431343334433 4
443646363436393636373941353334413433324130313538303043343936453734363537323 6
453631364334333635373237344131303238303030383230314646413031393830313034443 6
313645363734353738373436353732364536313643343336353732373441313032383030303 8
323031464630303030 3C2F496E70757441504553E0A3C2F6E73323A5472616E736D69743E</
encodedData>
</invAspect>
<invAspect>
  <refId>1286</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1287</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1288</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
```


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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201B2A18201A6808201A23C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E707574415044553E3030433230303030303030303038323746
393031463745413137433830303130303831313534343439343634363435353232343534453534
343934313443324434393434343534453534343935343539413230453831304334393645373 4
363537323645363136433433363537323734383330443431373537343638366373236393741
363137343639366463645413430423836303934313433344334443646363436393636373941 35
333441343332413031353830304334393645373436353732364536313643433363537323734
413130323830303038323031464641303139383031303444363136453673435373837343635
373236453631364334333635373237344131303238303030383230314646303030303C2F496E
707574415044553E0A3C2F6E73323A5472616E736D69743E8206150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1289</refId>
  <annexAId>77</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000827F901F7EA17C80010081154449464645524 54E5449414C2D4
944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6
EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008
201FFA01980104D616E6745787465726E616C43657274A10280008201FF0000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1290</refId>
  <annexAId>77</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000827F901F7EA17C80010081154449464645524 54E5449414C
2D4944454E54495459A20E810C496E7465726E616C43657274830D417574686F72697A617469
```

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```
6F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF00</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1291</refId>
  <annexAId>77</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F90202682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544944900</encodedData>
</invAspect>
<invAspect>
  <refId>1292</refId>
  <annexAId>77</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F90202682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544944900</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1293</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820139A1820135A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181F23C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 53E37463930323032363832323434313530343935463533343 5
343335353532343935343539354634333446344534343439353434393446344535463445344 6
353435463533343135343439353334363439343534343930303C2F4F757470757441504455
3E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1294</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1295</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1296</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820100A181F58081F23C6E73323A5472616E736D6974526573
706F6E7365207865C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32
343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C
2F526573756C743E0A202020203C4F7574707574415044553E3746393032303236383232343434
313530343935463533343534333535353234393534353935463433344634453434343953434
393446344535463445344635343546353334313534343935333436343934353434393030303C
2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1297</refId>
  <annexAId>77</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>
```

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```
      <Result>IFD_OK</Result>


  <OutputAPDU>7F90202682244150495F53454355524954595F434F4E444954494F4E5F4E4F
545F534154495346494544900 0</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1298</refId>
  <annexAId>77</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to modify Internal
DID's ACLModify access rule. This attempt
     shall fail as the DID state has been cleared. Ensure that the state of
a recreated DID is false.</description>
  <encodedData
type="xs:hexBinary">7F90202682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>1299</refId>
  <annexAId>78</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the A00000041000010001 card application.
Ensure that a card application can only be
     deleted from the alpha card application.</description>
  <encodedData
type="xs:hexBinary">7F8F6310A10E8001008109A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>1300</refId>
  <annexAId>78</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F6310A10E8001008109A000000410000100010000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1301</refId>
```

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```
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303134374638463633313041313045383030313030383139413030303030
3034313030303031303030313030303030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1302</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1303</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364964652D54432D53
657373696F6E49442D328100821C536D617274636172645364964652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1304</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303134374638463
3331304131304538303031303038313039413030303030303431303030303130303031303030
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1305</refId>
  <annexAId>78</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F6310A10E8001008109A000000410000100010000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1306</refId>
  <annexAId>78</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F6310A10E8001008109A000000410000100010000</en
codedData>
</invAspect>
<invAspect>
  <refId>1307</refId>
  <annexAId>78</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F6420821E4150495F505245524551554953495445 5F4E4F545F53
415449534649454490 00</encodedData>
</invAspect>
<invAspect>
  <refId>1308</refId>
  <annexAId>78</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F6420821E4150495F505245524551554953495445 5F4E4F545F53415449
53464945449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1309</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012DA1820129A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181E63C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C52657756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636343230383231453431353034393546353035 32
34353532343535313535343935383439353434353546344534463534354635333431353434 39
353334363439343534343930303303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1310</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1311</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1312</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81F4A181E98081E63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574075744150445 53E3746384636343230383231453431
353034393546353035323435353234353531353534393533343935343435354534463534
354635333431353434393533343634393435343934393030303C2F4F7574075744150445 53E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1313</refId>
  <annexAId>78</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F6420821E4150495F505245524551554953495445 5F4E4F545F53415449
53464945449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1314</refId>
  <annexAId>78</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to delete the
A00000041000010001 card application. Ensure that
     a card application can only be deleted from the alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F6420821E4150495F505245524551554953495445 5F4E4F545F53
4154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>1315</refId>
  <annexAId>79</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the Alpha card application. The following set of
actions shall delete the Alpha application.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>1316</refId>
  <annexAId>79</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1317</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820199A1820195A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32818201383C
6E73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E
646C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E303043
3230303030303030303044437463846353734394131343741303432413131423830313936383
7343734373033413246324637333644363137323734363336313732363432443683646373337
3432453645363537343833313834323643373536353230343934363434323035323635363136
3436353732323035333445333233343333333234313334383430313031383530364538323838
3143313137303238313031303030303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1318</refId>
```

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```
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1319</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1320</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820148A082013C808201383C6E73323A5472616E736D697420
786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74
6563683A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448
616E646C653E0A202020203C496E70757441504455 3E3030433230303030303030303034443746
384635373439413134374130343241313142383031393638373437343730334132463273 3
364436313732373436333631373236343244366383646373337343245364536353734383331 38
343236433735363532303439343634343230353236353631363436353732323035333445333 2
333433333323431333438343031303138353036453832383831433131373032383130313030
303030303C2F496E70757441504455 3E0A3C2F6E73323A5472616E736D69743E82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1321</refId>
  <annexAId>79</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000004D7F8F5749A147A042A11B8019687474703A2F2F736D6172746
36172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332413
48401018506E82881C117028101000000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1322</refId>
  <annexAId>79</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200004D7F8F5749A147A042A11B8019687474703A2F2F736D6172
74636172642D686F73742E6E65748318426C7565204946442052656164657220534E32343332
41348401018506E82881C1170281010000</encodedData>
</invAspect>
<invAspect>
  <refId>1323</refId>
  <annexAId>79</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA1038001018206415049 5F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1324</refId>
  <annexAId>79</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA1038001018206415049 5F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1325</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820107A1820103A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181C03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E37463846353830444131303338303031303138323036343131
353034393546344634423933030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1326</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1327</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1328</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CEA181C38081C03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E37463846353830444131303338 30
303130313832303634313530343935463446344239303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1329</refId>
  <annexAId>79</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F580DA10380010182064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1330</refId>
  <annexAId>79</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the Alpha card
application. The following set of actions
      shall delete the Alpha application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1331</refId>
  <annexAId>80</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the A00000041000010001 card application. Ensure that a
card application with an existing
      connection can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F6310A10E8001018109A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>1332</refId>
  <annexAId>80</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F6310A10E8001018109A0000004100001000010000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1333</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D6172743643642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313437463846363331304131304538303031303138313039413030303030
3034313030303031303030313030303030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1334</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1335</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1336</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746384636
333130413130453830303130313831303941303030303030343130303030313030303031303030
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>1337</refId>
  <annexAId>80</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F6310A10E8001018109A0000004100001000100000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1338</refId>
  <annexAId>80</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F6310A10E8001018109A000000410000100010000</en
codedData>
</invAspect>
<invAspect>
  <refId>1339</refId>
  <annexAId>80</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F642582234150495F5741524E494E475F434F4E4E454354494F4E
5F444953434F4E4E45435445449000</encodedData>
</invAspect>
<invAspect>
  <refId>1340</refId>
  <annexAId>80</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F642582234150495F5741524E494E475F434F4E4E454354494F4E5F4449
53434F4E4E45435445449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1341</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820137A1820133A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D6172746361726453696465 2D54432D536573
73696F6E49442D328181F03C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636343235383232333431353034393546353734 31
353234453439344534373546343334463445344534353433353434393446344535463434343439
353334333446344534453435343335343435343439303030 3C2F4F7574707574415044553E0A
3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1342</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1343</refId>
  <annexAId>80</annexAId>
```


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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1344</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FEA181F38081F03C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636343235383232333431
353034393546353734313532344534393445343735464334334464344534453435343335343439
344634453546343434393533343334464344534453435343335343435343439303030 3C2F4F75
74707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E8206415049
5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1345</refId>
  <annexAId>80</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F642582234150495F5741524E494E475F434F4E4E454354494F4E5F4449
53434F4E4E45435445449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1346</refId>
  <annexAId>80</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the
A00000041000010001 card application. Ensure that a card
     application with an existing connection can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F642582234150495F5741524E494E475F434F4E4E454354494F4E
5F444953434F4E4E4543544544</encodedData>
</invAspect>
<invAspect>
  <refId>1347</refId>
  <annexAId>81</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the A00000041000020001 card application. Ensure that a
card application that contains multiple
     DataSets can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F6310A10E8001018109A0000004100002000l</encodedData>
</invAspect>
<invAspect>
  <refId>1348</refId>
  <annexAId>81</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000147F8F6310A10E8001018109A00000041000020001000O</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1349</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
```

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```
303030303030303031343746384636333130413130453830303130313831303941303030303030
303431303030303230303031303030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1350</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1351</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1352</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A20302020203C496E707574415044553E3030433230303030303030303031343746384636
333130413130453830303130313831303941303030303030343130303030303230303031303030
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>1353</refId>
  <annexAId>81</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
        <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F8F6310A10E8001018109A0000004100002000100000</Inp
utAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1354</refId>
  <annexAId>81</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F8F6310A10E8001018109A000000410000200010000</en
codedData>
</invAspect>
<invAspect>
  <refId>1355</refId>
  <annexAId>81</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F640882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1356</refId>
  <annexAId>81</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F640882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1357</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E37463846363430383832303634313530343935463446344234423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1358</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1359</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1360</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E37463846363430383832303634313
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1361</refId>
  <annexAId>81</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F8F640882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1362</refId>
  <annexAId>81</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the
A00000041000020001 card application. Ensure that a card
     application that contains multiple DataSets can be
deleted.</description>
  <encodedData type="xs:hexBinary">7F8F640882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1363</refId>
  <annexAId>82</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to retrieve the A00000041000020001 card application
access rules. Ensure that the access rules
     for the deleted card application can not be retrieved.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>1364</refId>
  <annexAId>82</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>
```

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```
      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A00000041000010001 0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1365</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182014EA182014AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181EE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303238374639303144323441313232383030313031383131303433343135 32
34343244343135303530344334393433343135343439344634454132304238323039413030 30
3030303431303030303031303030313030303 03C2F496E707574415044553E0A3C2F6E73323A54
72616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1366</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1367</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1368</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81FCA181F18081EE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303032383746393031
443234413132323830303130313038313130343334313532343432443431353035303443343934
333431353434393446344541323042383230394130303030303034313030303031303030313130
3030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>1369</refId>
  <annexAId>82</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000287F901D24A12280010181104341524 42D4150504C494341544
94F4EA20B8209A000000410000100010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1370</refId>
  <annexAId>82</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000287F901D24A12280010181104341524 42D4150504C494341
54494F4EA20B8209A000000410000100010 0</encodedData>
</invAspect>
<invAspect>
  <refId>1371</refId>
  <annexAId>82</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E449000</encodedData>
</invAspect>
<invAspect>
  <refId>1372</refId>
  <annexAId>82</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>


  <OutputAPDU>7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1373</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820125A1820121A03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181DE3C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746393031453143383231413431353034393546344534
3443435343435463435344535343439353435393546344534463534354634363535344534
3434393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D697452657370
6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1374</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1375</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1376</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81ECA181E18081DE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031453143383231413431
3530343935463445343134443435343435463435344535343439353435393546344534463534
3546343634463535344534343930303C2F4F7574707574415044553E0A3C2F6E73323A5472
616E736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1377</refId>
  <annexAId>82</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD Layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F464F554E
449000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1378</refId>
  <annexAId>82</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to retrieve the
A00000041000020001 card application access
     rules. Ensure that the access rules for the deleted card application
can not be retrieved.</description>
  <encodedData
type="xs:hexBinary">7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>1379</refId>
  <annexAId>83</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to list the card applications using a connection to a
deleted card application. Ensure the
     request shall fail as the connection was disconnected when the card
application was deleted.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>1380</refId>
  <annexAId>83</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1381</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
```

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```
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303030303937463846354630354131303338303031303030303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1382</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1383</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1384</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E303043323030303030303030303393746384635
463035413130333830303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1385</refId>
  <annexAId>83</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
      <InputAPDU>00C200000000097F8F5F05A1038001000000</InputAPDU>
    </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1386</refId>
  <annexAId>83</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5F05A10380010000</encodedData>
</invAspect>
<invAspect>
  <refId>1387</refId>
  <annexAId>83</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F601982174150495F494E434F52524543545F504152414D455445
529000</encodedData>
</invAspect>
<invAspect>
  <refId>1388</refId>
  <annexAId>83</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F601982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1389</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011FA182011BA03E801C536D617274636172645369646652D
54432D53657373696F6E49442D328100821C536D617274636172645369646652D54432D536573
73696F6E49442D328181D83C6E73323A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574707574415044553E3746384636303139383231373431353034393546343934345
343334463532353234353433353435463530343135323431344434353534343535323930303030
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</
encodedData>
</invAspect>
<invAspect>
  <refId>1390</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1391</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1392</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636303139383231373431
353034393546343934453433334463532353234353433353435463530343135323431344435
353434353532393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974
526573706F6E73653E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1393</refId>
  <annexAId>83</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F601982174150495F494E434F52524543545F504152414D455445529000
</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1394</refId>
  <annexAId>83</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to list the card
applications using a connection to a deleted
     card application. Ensure the request shall fail as the connection was
disconnected when the card application was
     deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F601982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>1395</refId>
  <annexAId>84</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the list of card applications.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>1396</refId>
  <annexAId>84</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
```

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```
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5F05A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1397</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D22757261E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303039374638463546303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1398</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1399</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1400</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
4630354131303338303031303130303030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1401</refId>
  <annexAId>84</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
      Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
      <ns2:Transmit>

       <SlotHandle>00</SlotHandle>

       <InputAPDU>00C200000000097F8F5F05A1038001010000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1402</refId>
  <annexAId>84</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5F05A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>1403</refId>
  <annexAId>84</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F6014A10AA0080406E82881C1170282064150495F4F4B9000</en
codedData>
</invAspect>
```

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```
<invAspect>
  <refId>1404</refId>
  <annexAId>84</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
     SAL return object from the previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <OutputAPDU>7F8F6014A10AA0080406E82881C1170282064150495F4F4B9000</OutputAP
DU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1405</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820115A1820111A03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D328181CE3C6E73523A5472616E736D6974526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A20202020 3C526573756C743E4946445F4F4B3C2F526573756C743E0A2020
20203C4F7574075744150445 3E3746384636303134413130414130303830343036453832383
3831433131373032383230363431353034393546344634423930303C2F4F75747075744150
44553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1406</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1407</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1408</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81DCA181D18081CE3C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384636303134413130414130
3038303430364538323838314331313730323832303634313530343935463446344239303030
3C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E73653E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1409</refId>
  <annexAId>84</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>


  <outputAPDU>7F8F6014A10AA0080406E82881C1170282064150495F4F4B9000</OutputAP
DU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1410</refId>
  <annexAId>84</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the list of card
applications.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F6014A10AA0080406E82881C1170282064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>1411</refId>
  <annexAId>85</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the global AccessLog DID. Ensure that globl DIDs can
be deleted.</description>
  <encodedData
type="xs:hexBinary">7F901910A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>1412</refId>
  <annexAId>85</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F901910A10E800101810941636365737 34C6F670000</Inp
utAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1413</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820126A1820122A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181C63C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031343746393031393130413130453830303130313831303934313633363
3635373337333443364636373030303C2F496E707574415044553E0A3C2F6E73323A547261
6E736D69743E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1414</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1415</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1416</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D4A181C98081C63C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031343746393031
393130413130453830303130313831303934313633363336335373337333443364636373030303
303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>1417</refId>
  <annexAId>85</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000147F901910A10E800101810941636365737 34C6F670000</Inp
utAPDU>
```

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```
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1418</refId>
  <annexAId>85</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000147F901910A10E800101810941636365737 34C6F6700</en
codedData>
</invAspect>
<invAspect>
  <refId>1419</refId>
  <annexAId>85</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1420</refId>
  <annexAId>85</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1421</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F757470757441504455453E3746393031413038383230363431353034393546344634423930
30303C2F4F757470757441504455453E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1422</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1423</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1424</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F757470757441504455453E3746393031413038383230363431
353034393546344634423930303030 3C2F4F757470757441504455453E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1425</refId>
  <annexAId>85</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1426</refId>
  <annexAId>85</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the global
AccessLog DID. Ensure that globl DIDs can be
     deleted.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1427</refId>
  <annexAId>86</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the global CHPIN DID.</description>
  <encodedData
type="xs:hexBinary">7F90190CA10A800101810543485049 4E</encodedData>
</invAspect>
<invAspect>
  <refId>1428</refId>
  <annexAId>86</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F90190CA10A800101810543485049 4E0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1429</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181BE3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030303130374639303139393043413130413830303130313813035343334383530
343934453030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E</en
codedData>
</invAspect>
<invAspect>
  <refId>1430</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1431</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1432</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81CCA181C18081BE3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031303746393031
393043413130413830303130313813035343334383530343934453030303C2F496E707574
415044553E0A3C2F6E73323A5472616E736D69743E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1433</refId>
  <annexAId>86</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000107F90190CA10A800101810543485049 4E0000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1434</refId>
  <annexAId>86</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200000107F90190CA10A800101810543485049 4E00</encodedDat
a>
</invAspect>
<invAspect>
  <refId>1435</refId>
  <annexAId>86</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1436</refId>
  <annexAId>86</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
```

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```
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1437</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E37463930314130383832303634313530343935463446344239930
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1438</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1439</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1440</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031413038383230363431
353034393546344634423393030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1441</refId>
  <annexAId>86</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1442</refId>
  <annexAId>86</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the global CHPIN
DID.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1443</refId>
  <annexAId>87</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the global InternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901913A111800101810C496E7465726E616C43657274</encodedD
ata>
</invAspect>
<invAspect>
  <refId>1444</refId>
  <annexAId>87</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C200000000177F901913A111800101810C496E7465726E616C43657274000
0</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1445</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182012CA1820128A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181CC3C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
3030303030303030313737463930313931333413131313830303130313831304334393645373 4
3635373236453631364334333635373237343030303C2F496E707574415044553E0A3C2F6E
73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1446</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1447</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1448</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81DAA181CF8081CC3C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234373233A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031373746393031
393133413131313830303130313831304334393645734363537323645363136433433363537
323734303030303C2F496E707574415044553E0A3C2F6E73323A5472616E736D69743E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1449</refId>
  <annexAId>87</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000177F901913A111800101810C496E7465726E616C43657274000
0</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1450</refId>
  <annexAId>87</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000177F901913A111800101810C496E7465726E616C43657274
00</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1451</refId>
  <annexAId>87</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1452</refId>
  <annexAId>87</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1453</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D5365737373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574075744150445553E374639303141303838323036343135303439354634463439303
30303C2F4F7574075744150445553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1454</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1455</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1456</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D22757269733A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031413038383230363431
353034393546344634423934303030303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1457</refId>
  <annexAId>87</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1458</refId>
  <annexAId>87</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the global
InternalCert DID.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1459</refId>
  <annexAId>88</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the global MangExternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901917A11580010181104D616E6745787465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1460</refId>
  <annexAId>88</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>


  <InputAPDU>00C2000000001B7F901917A11580010181104D616E6745787465726E616C436
572740000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1461</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820134A1820130A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D43C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E707574415044553E30304332
303030303030303031423746393031393137413131353830303130313831313034443631364 5
```

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```
3637343537383734363537323645363136433433363537323734303030303C2F496E70757441
5044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1462</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1463</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1464</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E2A181D78081D43C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303031423746393031
3931374131313538303031303138313130344436313645363734353738373436353732364536
3136433433363537323734303030303C2F496E707574415044553E0A3C2F6E73323A5472616E
736D69743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1465</refId>
  <annexAId>88</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>
```

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```
  <InputAPDU>00C2000000001B7F901917A11580010181104D616E6745787465726E616C436
572740000</InputAPDU>
      </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1466</refId>
  <annexAId>88</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
      previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C200001B7F901917A1158001018104D616E6745787465726E616C
4365727400</encodedData>
</invAspect>
<invAspect>
  <refId>1467</refId>
  <annexAId>88</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
      SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F901A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1468</refId>
  <annexAId>88</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1469</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746393031413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1470</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1471</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1472</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746393031413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1473</refId>
  <annexAId>88</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
     APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
     <ns2:TransmitResponse>

      <Result>IFD_OK</Result>

      <OutputAPDU>7F901A0882064150495F4F4B9000</OutputAPDU>
     </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1474</refId>
  <annexAId>88</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the global
MangExternalCert DID.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1475</refId>
  <annexAId>89</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the Alpha card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>1476</refId>
  <annexAId>89</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1477</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820110A182010CA057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181B03C6E
73323A5472616E736D697420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F
2D6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E64
6C653E30303C2F536C6F7448616E646C653E0A202020203C496E70757441504455E30304332
30303030303030303039374638463539303541313033383030313031303030303C2F496E7075
74415044553E0A3C2F6E73323A5472616E736D69743E</encodedData>
</invAspect>
<invAspect>
  <refId>1478</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1479</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1480</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81BEA181B38081B03C6E73323A5472616E736D697420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A202020203C496E707574415044553E3030433230303030303030303030393746384635
```

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```
393035413130333830303130313030303C2F496E707574415044553E0A3C2F6E73323A5472
616E736D69743E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1481</refId>
  <annexAId>89</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
 <description>Transmit the command APDU from the SAL Proxy to the IFD layer.
Extended APDUs are used between the IFD
     Proxy and the IFD. The APDU contains the DER encoded SAL call object
from the previous SAL Proxy call.</description>
  <encodedData>
     <ns2:Transmit>

      <SlotHandle>00</SlotHandle>

      <InputAPDU>00C200000000097F8F5905A1038001010000</InputAPDU>
     </ns2:Transmit>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1482</refId>
  <annexAId>89</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required. The APDU
contains the DER encoded SAL call object from the
     previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">00C20000097F8F5905A10380010100</encodedData>
</invAspect>
<invAspect>
  <refId>1483</refId>
  <annexAId>89</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. The APDU contains the DER encoded on-card
     SAL return object Response chaining may be required.</description>
  <encodedData
type="xs:hexBinary">7F8F5A0882064150495F4F4B9000</encodedData>
</invAspect>
<invAspect>
  <refId>1484</refId>
  <annexAId>89</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the SAL
Proxy. The APDU contains the DER encoded on-card
```

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```
      SAL return object from the previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1485</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181FCA181F9A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B63C6E73323A5472616E736D6974526573706F6E736520786D6C6E733A6E
73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368
656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A20202020
3C4F7574707574415044553E3746384635413038383230363431353034393546344634423930
30303C2F4F7574707574415044553E0A3C2F6E73323A5472616E736D6974526573706F6E7365
3E</encodedData>
</invAspect>
<invAspect>
  <refId>1486</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1487</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1488</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C4A181B98081B63C6E73323A5472616E736D697452657370
6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A3234
3732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F
526573756C743E0A202020203C4F7574707574415044553E3746384635413038383230363431
353034393546344634423930303C2F4F7574707574415044553E0A3C2F6E73323A5472616E
736D6974526573706F6E73653E82064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1489</refId>
  <annexAId>89</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the SAL Proxy. The
      APDU contains the DER encoded on-card SAL return object from the
previous on-card SAL response.</description>
  <encodedData>
      <ns2:TransmitResponse>

       <Result>IFD_OK</Result>

       <OutputAPDU>7F8F5A0882064150495F4F4B9000</OutputAPDU>
      </ns2:TransmitResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1490</refId>
  <annexAId>89</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1491</refId>
  <annexAId>90</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>1492</refId>
  <annexAId>90</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1493</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465244
2D53657373696F6E49442D328119687474703A2F2F736D6172746361726420D686F73742E6E65
74821C436C69656E7441707053696465244D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6573323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E746578748616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>1494</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1495</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646524432D53
657373696F6E49442D328100821C536D617274636172645369646524432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1496</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1497</refId>
  <annexAId>90</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1498</refId>
  <annexAId>90</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1499</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657370F6E73653E</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1500</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1501</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1502</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E73652078696C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1503</refId>
  <annexAId>90</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1504</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description>Close the TC from the client application host.</description>
      <encodedData
    type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D32821C436C69656E7441707053696465 2D54432D53657373696F6E4944
    2D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1505</refId>
      <annexAId>90</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Return of close the TC from the client application
    host.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1506</refId>
      <annexAId>90</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>terminate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
    This shall automatically invoke
         ReleaseContext on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1507</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData
    type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
    657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
    49442D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>1508</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

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Annex C
(informative)

Non ICC-Resident stack expected component test inputs and outputs

Sequence tests for non ICC-Resident stack models shall test only inputs and outputs at SAL Agent interface. The expected DER/TLV encoding of the ASN.1 of the inputs and outputs is defined below. All other interfaces shall be tested as defined in the relevant clauses i.e. GCI clause 6.2, IFD clause 6.3 and TC clause 6.4.

All ASN.1 TLV encoded data enforces Destinguished Encoding Rules (DER).

The default pathsecurity shall be TLS 1.0

C.1 Application management - alpha card-application data structure construction

This appendix provides the test data and expected results, as described in Annex A.1.1, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.1.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
     <invAspect>
       <refId>1</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>CALL</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
     </invAspect>
     <invAspect>
       <refId>2</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>RETURN</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData
     type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the Alpha card application. This
shall automatically invoke Open on the TC
     layer and then EstablishContext on the IFDProxy as connectivity to the
smartcard host has not yet been established.
     Then it shall invoke connect on the IFDProxy. In turn connect shall be
invoked on the IFD Layer on the client side.
     After connect has completed, transmit on the IFDProxy shall be invoked
to transmit the CardApplicationConnect APDU to
     the Alpha card application. If the sessionIdentifier field in the
ChannelHandle is null then the SAL Proxy shall
     create a new TC connection. If the sessionIdentifier field is not null
then the TC connection must exist at this
     point. In this case sessionIdentifier is null. The smartcard path shall
be replaced when comparing the results to
     those from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A20202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A20202020202020203C5365
```

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```
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The trahsmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>
```

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```
      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370 6F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370 6F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787 4526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
```

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```
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2F5726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D613233E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>47</refId>
      <annexAId>2</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>48</refId>
      <annexAId>2</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Connect to
    the Alpha card application. This shall
        automatically invoke Open on the TC layer and then EstablishContext on
    the IFDProxy as connectivity to the smartcard
        host has not yet been established. Then it shall invoke connect on the
    IFDProxy. In turn connect shall be invoked on
        the IFD layer on the client side. After connect has completed, transmit
    on the IFDProxy shall be invoked to transmit
        the CardApplicationConnect APDU to the Alpha card application. If the
    sessionIdentifier field in the ChannelHandle is
        null then the SAL Proxy shall create a new TC connection. If the
    sessionIdentifier field is not null then the TC
        connection must exist at this point. In this case sessionIdentifier is
    null. The smartcard path shall be replaced
        when comparing the results to those from an ISO247272
    stack.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>49</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the Alpha card application access
    rules. Ensure that all of the Alpha card
        application access rules are set to Always. For the purpose of this
    scenario test the Alpha card application needs to
        be open.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901D21A11F800100811043415244150504C49434154494F4EA2
088206E82881C11702</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>70</refId>
      <annexAId>3</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>71</refId>
      <annexAId>3</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>72</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the Alpha card application access rules.
         Ensure that all of the Alpha card application access rules are set to
    Always. For the purpose of this scenario test
         the Alpha card application needs to be open.</description>
      <encodedData
    type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
    0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
    860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
    437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
    657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
```

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```
A2038101FF3026801444696666572656E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541
6374696F6EA2038101FF3028801444696666572656E7469616C4964656E74697479A10B8509
444944437265617465A2038101FF3028801444696666572656E7469616C4964656E74697479
A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264417070
6C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B4361726441707 06C69636174696F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C4361726441707 06C69
636174696F6E53657276696365437265617465A2038101FF3036800F436172644170706C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963544656C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E4361726441707 06C696361
74696F6E536572766963654465736372696265A2038101FF82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application DID list.
Ensure that the DID list is empty.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>88</refId>
      <annexAId>4</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>89</refId>
      <annexAId>4</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>90</refId>
      <annexAId>4</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the Alpha card application DID list. Ensure
        that the DID list is empty.</description>
      <encodedData
    type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>91</refId>
      <annexAId>5</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the Alpha card application data set
    list. Ensure that the data set list is empty.</description>
```

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```
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
```

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```
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
      </invAspect>
      <invAspect>
        <refId>104</refId>
        <annexAId>5</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>CALL</invocationType>
        <description>Wait for the response, from the TC Agent, to the previous
      write.</description>
        <encodedData
      type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>105</refId>
        <annexAId>5</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>106</refId>
        <annexAId>5</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>107</refId>
        <annexAId>5</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application data set list.
      Ensure that the data set list is empty.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the internal certificate DID. The internal certificate
DID is used to verify that this is a valid
      smartcard. First create the DIDs then restrict the DID modification
permissions. The modification access rules refer
      to the Internal and External DIDs. One of these may not have yet been
created. This DID is actually a Simple
      Assertion DID, not an Client Application Asymmetric Internal
Authentication DID. This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F80138201C4A18201C0800100810C496E7465726E616C4365727482
072881C117030003A3028000A482019E301C800D43727970746F67726170686963A106840453
69676EA20382010030 1F800D417574686F72697A6174696F6EA109860741434C4C697374A203
8101FF3020800D43727970746F67726170686963A10A840844656369706865 72A20382010030
20800D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726
5E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F
67726170686963A111840F5665726966795369676E6174757265A203820100302880144469666
666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101FF302980
0D43727970746F67726170686963A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F4449444417574865
6E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>127</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>128</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the internal
    certificate DID. The internal certificate DID is
        used to verify that this is a valid smartcard. First create the DIDs
    then restrict the DID modification permissions.
        The modification access rules refer to the Internal and External DIDs.
    One of these may not have yet been created.
        This DID is actually a Simple Assertion DID, not an Client Application
    Asymmetric Internal Authentication DID. This
        simplifies the test case.</description>
      <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>129</refId>
      <annexAId>7</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the management external certificate DID. The
    management external certificate DID is used to
        provide an external party with full privileges. First create the DIDs
    then restrict the DID modification permissions.
        The modification access rules refer to the Internal and External DIDs.
    This DID is actually a Simple Assertion DID,
        not an Client Application External Authenticate with Certificates DID.
    This simplifies the test case.</description>
      <encodedData
    type="xs:hexBinary">7F90138201C8A18201C480010081104D616E6745787465726E616C43
    65727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A1
    0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
```

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```
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865 72A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D
43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
666572656E7469616C4964656E74697479A10885064449444765 74A2038101FF3027800D4372
7970746F67726170686963A111840F566572696679536967 6E6174757265A203820100302880
1444696666657 2656E7469616C4964656E74697479A10B85094449445570646174 65A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>7</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>146</refId>
      <annexAId>7</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>147</refId>
      <annexAId>7</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>148</refId>
      <annexAId>7</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the management
    external certificate DID. The management
          external certificate DID is used to provide an external party with full
    privileges. First create the DIDs then
          restrict the DID modification permissions. The modification access
    rules refer to the Internal and External DIDs.
          This DID is actually a Simple Assertion DID, not an Client Application
    External Authenticate with Certificates DID.
          This simplifies the test case.</description>
      <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the internal certificate
DID. Set the DIDUpdate access rule to first
     require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8186A1818380010081154449464645524 54E5449414C2D4944
454E54495459A20E810C496E7465726E616C436572748314446966666572656E7469616C4964
656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616C436572
74A10281008201FFA01980104D616E6745787465726E616C43657274A1028100820100</enco
dedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>165</refId>
      <annexAId>8</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>166</refId>
      <annexAId>8</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DIDUpdate
    access rule of the internal certificate DID. Set
        the DIDUpdate access rule to first require authentication of the
    internal and external management certificate DIDs.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>167</refId>
      <annexAId>9</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify the ACLModify access rule of the internal certificate
    DID. Set the ACLModify access rule to first
        require authentication of the internal and external management
    certificate DIDs.</description>
      <encodedData
    type="xs:hexBinary">7F901F7EA17C80010081154449464645524 54E5449414C2D4944454E
    54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
    0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10281008201FFA0
    1980104D616E6745787465726E616C43657274A1028100820100</encodedData>
    </invAspect>
    <invAspect>
      <refId>168</refId>
      <annexAId>9</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>181</refId>
      <annexAId>9</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>182</refId>
      <annexAId>9</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>183</refId>
      <annexAId>9</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>184</refId>
      <annexAId>9</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the internal certificate DID. Set
     the ACLModify access rule to first require authentication of the
internal and external management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the management external
certificate DID. Set the DIDUpdate access
     rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F818AA1818780010081154449464552454E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C436572748314446966666572656E7469
616C4964656E74697479A40B85094449445570646174657A534A432A015800C496E7465726E61
6C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A10281008201
00</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
```

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```
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>201</refId>
      <annexAId>10</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>202</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DIDUpdate
    access rule of the management external
        certificate DID. Set the DIDUpdate access rule to first require
    authentication of the internal and external
        management certificate DIDs.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>203</refId>
      <annexAId>11</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify the ACLModify access rule of the management external
    certificate DID. Set the ACLModify access
        rule to first require authentication of the internal and external
    management certificate DIDs.</description>
      <encodedData
    type="xs:hexBinary">7F901F8183A1818080010081154449464645245 4E5449414C2D4944
    454E54495459A21281104D616E6745787465726E616C43657274830D417574686F72697A6174
    696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A102
    81008201FFA01980104D616E6745787465726E616C43657274A1028100820100</encodedDat
    a>
    </invAspect>
    <invAspect>
      <refId>204</refId>
```

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```
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>11</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
```

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```
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>217</refId>
      <annexAId>11</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>218</refId>
      <annexAId>11</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>219</refId>
      <annexAId>11</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>220</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the management external
     certificate DID. Set the ACLModify access rule to first require
authentication of the internal and external
     management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Card Holder PIN DID. The Card Holder is required
to enter a PIN to authenticate this DID. This
     DID is actually a Simple Assertion DID, not an Client-Application
Secure PIN Compare Authentication DID. This
     simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382021FA182021B8001008105434850494E82072881C1170300
03A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA2038201
00301F800D417574686F72697A6174696F6EA10986074143 4C4C697374A2038101FF3020800D
43727970746F67726170686963A10A8408445636970686572A2038201003020800D43727970
746F67726170686963A10A8408456E636970686572A2038201003021800D43727970746F6772
6170686963A10B840947657452616E646F6DA203820100302580144469666666572656E746961
6C4964656E74697479A10885064449444E6574A2038101FF3027800D43727970746F67726170
686963A111840F5665726966795369676E6174757265A2038201003029800D43727970746F67
726170686963A113841156657269679436572746966696361746 5A203820100302E80144469
66666572656E7469616C4964656E74697479A111850F4449444175746865 6E746963617465A2
038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432
A015800C496E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E61
6C43657274A1028100820100305980144469666666572656E7469616C4964656E74697479A10B
8509444944557064617465A234A432A015800C496E7465726E616C43657274A10281008201FF
A01980104D616E6745787465726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>223</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>12</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>235</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>240</refId>
      <annexAId>12</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>241</refId>
      <annexAId>12</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>242</refId>
      <annexAId>12</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the Card Holder PIN
    DID. The Card Holder is required to enter a
          PIN to authenticate this DID. This DID is actually a Simple Assertion
    DID, not an Client-Application Secure PIN
          Compare Authentication DID. This simplifies the test
    case.</description>
      <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>243</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the access log DID. This shall enable logging across
all non-alpha card applications. Before
     authenticating this DID require internal and CHPIN DID
authentication.</description>
  <encodedData
type="xs:hexBinary">7F9013820249A18202458001008109416363657373 4C6F6782072881
C117030003A3028000A4820226301C800D43727970746F67726170686963A106840453696 76E
A203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF
3020800D43727970746F67726170686963A10A84084465636970686572A2038201003020800D
43727970746F67726170686963A10A8408456E636970686572A2038201003021800D43727970
746F67726170686963A10B840947657452616E646F6DA2038201003025801444696666657265
6E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F
67726170686963A111840F566572696679536967 6E6174757265A2038201003029800D437279
70746F67726170686963A113841156657269667943657274696669657465A2038201003052
800D417574686F72697A6174696F6EA10B860941434C4D6F6469679A234A432A015800C496E
7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A1
028100820100305480144469666665726 56E7469616C4964656E74697479A111850F44494441
757468656E746963617465A229A427A015800C496E7465726E616C43657274A10281008201FF
A00E8005434850494EA10281008201003059801444696666657265 6E7469616C4964656E7469
7479A10B85094449445570646174 65A234A432A015800C496E7465726E616C43657274A10281
008201FFA01980104D616E6745787465726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>13</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>254</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>262</refId>
        <annexAId>13</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>263</refId>
        <annexAId>13</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>264</refId>
        <annexAId>13</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didCreate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Create the access log DID.
      This shall enable logging across all
           non-alpha card applications. Before authenticating this DID require
      internal and CHPIN DID authentication.</description>
        <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>265</refId>
        <annexAId>14</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclList</method>
        <invocationType>CALL</invocationType>
        <description>Post-condition: Retrieve the Alpha card application access
      rules. Ensure that these access rules have not
           changed. Ensure the permissions on the Alpha card are all set to
      Always.</description>
        <encodedData
      type="xs:hexBinary">7F901D21A11F8001008110434152442D4150504C49434154494F4EA2
      088206E82881C11702</encodedData>
      </invAspect>
```

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```
<invAspect>
  <refId>266</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>270</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>274</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
```

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```
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736965F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>286</refId>
      <annexAId>14</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>287</refId>
      <annexAId>14</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>288</refId>
      <annexAId>14</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the Alpha card application access rules.
         Ensure that these access rules have not changed. Ensure the permissions
    on the Alpha card are all set to Always.</description>
      <encodedData
    type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
    0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
    860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
    437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
    657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
    A2038101FF3026801444696666572656E7469616C4964656E74697479A10985074449444C69
    7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541
    6374696F6EA2038101FF3028801444696666572656E7469616C4964656E74697479A10B8509
    444944437265617465A2038101FF3028801444696666572656E7469616C4964656E74697479
    A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
```


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```
726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264417070
6C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654372656174 65A2038101FF3036800F4361726441707 06C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963654465C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E4361726441707 06C696361
74696F6E536572766963654465736372696265A2038101FF82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the Alpha card application DID list.
Ensure that the DID list contains the newly
     created DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>296</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>304</refId>
        <annexAId>15</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>305</refId>
        <annexAId>15</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>306</refId>
        <annexAId>15</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didList</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Post-condition: Retrieve
      the Alpha card application DID list. Ensure
           that the DID list contains the newly created DIDs.</description>
        <encodedData
      type="xs:hexBinary">7F90123EA134A0321A05434850494E1A094163636573734C6F671A0C
      496E7465726E616C436572741A104D616E6745787465726E616C436572748206415049 5F4F4B
      </encodedData>
      </invAspect>
      <invAspect>
        <refId>307</refId>
        <annexAId>16</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetList</method>
        <invocationType>CALL</invocationType>
        <description>Post-condition: Retrieve the Alpha card application data set
      list. Ensure that the data set list is
           empty.</description>
        <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
      </invAspect>
      <invAspect>
```

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```
  <refId>308</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
```

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```
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>316</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>16</annexAId>
```

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```
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>321</refId>
      <annexAId>16</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>322</refId>
      <annexAId>16</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>323</refId>
      <annexAId>16</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>324</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the Alpha card application data set list.
     Ensure that the data set list is empty.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the Alpha card application.
Transmit on the IFDProxy shall be invoked to
     transmit the CardApplicationDisconnect APDU to the Alpha card
application. After transmit has completed, disconnect
     shall be invoked on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>328</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106410495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810082C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369644652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
```

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```
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>341</refId>
        <annexAId>17</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>342</refId>
        <annexAId>17</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>disconnect</method>
        <invocationType>CALL</invocationType>
        <description></description>
        <encodedData>
           <ns2:Disconnect>

            <SlotHandle>00</SlotHandle>
           </ns2:Disconnect>
        </encodedData>
      </invAspect>
      <invAspect>
        <refId>343</refId>
        <annexAId>17</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>write</method>
        <invocationType>CALL</invocationType>
        <description>Transmit the IFD XML message from the TC Proxy to the TC
      Agent. The XML is the marshalled call object
           from the previous IFD Proxy call.</description>
        <encodedData
      type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
      2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
      74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
      446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
      6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
```

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```
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>17</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application. Transmit
     on the IFDProxy shall be invoked to transmit the
CardApplicationDisconnect APDU to the Alpha card application. After
     transmit has completed, disconnect shall be invoked on the
IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
```

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```
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContext>

       <ContextHandle>00</ContextHandle>
      </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContextResponse>

       <Result>IFD_OK</Result>
      </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646465D5443
2D53657373696F6E49442D328100821C536D617274636172645369646465D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370 6F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657370 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>364</refId>
  <annexAId>18</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E73652078D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F5265737 C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
```

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```
    <invocationType>CALL</invocationType>
    <description>Close the TC from the client application host.</description>
    <encodedData
  type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
  657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
  2D32</encodedData>
  </invAspect>
  <invAspect>
    <refId>369</refId>
    <annexAId>18</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>close</method>
    <invocationType>RETURN</invocationType>
    <description>Return of close the TC from the client application
  host.</description>
    <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>370</refId>
    <annexAId>18</annexAId>
    <layer>SAL</layer>
    <layerName>SAL</layerName>
    <method>terminate</method>
    <invocationType>RETURN</invocationType>
    <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
  This shall automatically invoke
       ReleaseContext on the IFDProxy.</description>
    <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>371</refId>
    <annexAId>0</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>close</method>
    <invocationType>CALL</invocationType>
    <description>Close the trusted channel on the smartcard host
  side.</description>
    <encodedData
  type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
  657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
  49442D31</encodedData>
  </invAspect>
  <invAspect>
    <refId>372</refId>
    <annexAId>0</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>close</method>
    <invocationType>RETURN</invocationType>
    <description>Close the trusted channel on the smartcard host
  side.</description>
    <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
  </invAspect>
</invAspectList>
```

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C.2 Application management - first application data structure construction

This appendix provides the test data and expected results, as described in Annex A.1.2, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.2.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
     <invAspect>
       <refId>1</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>CALL</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
     </invAspect>
     <invAspect>
       <refId>2</refId>
       <annexAId>0</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>open</method>
       <invocationType>RETURN</invocationType>
       <description>Open the trusted channel on the smartcard host side. Next the
     smartcard host server will invoke the TC
          read method and wait for requests. The order of this call and the read
     call in relation to the client application
          side is undefined. The channel handle returned by open on the smartcard
     side can be different to that returned on the
          client application side.</description>
       <encodedData
     type="xs:hexBinary">7F9F244AA140A03E801C536D6172746361726453696465 2D54432D53
     657373696F6E49442D318100821C536D6172746361726453696465 2D54432D53657373696F6E
     49442D3182064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>3</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>initialize</method>
       <invocationType>CALL</invocationType>
       <description>Initialise the SAL Proxy.</description>
       <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
     </invAspect>
     <invAspect>
       <refId>4</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
```

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```
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the Alpha card application. This
shall first invoke connect on the IFDProxy. In
     turn connect shall be invoked on the IFD layer on the client side.
After connect has completed, transmit on the
     IFDProxy shall be invoked to transmit the CardApplicationConnect APDU
to the Alpha card application. The IFD Name
     shall need to be replaced with an actual reader name when comparing the
results to results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B80196874747032F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
```

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```
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D32811968747703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E746578787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A2020202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A2020202020202020203C5365
7373696F6E4964656E746966696572E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F536573736696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E820641504957F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
```


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```
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787 4526573706F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787 4526573706F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787452657370 6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContextResponse>

       <Result>IFD_OK</Result>

       <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
```

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54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C7565204946442052656164657220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy

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```
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

       <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D227526E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>45</refId>
      <annexAId>2</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>46</refId>
      <annexAId>2</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>47</refId>
      <annexAId>2</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>48</refId>
      <annexAId>2</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the Alpha card application. This shall first
      invoke connect on the IFDProxy. In turn connect shall be invoked on the
IFD layer on the client side. After connect
      has completed, transmit on the IFDProxy shall be invoked to transmit
the CardApplicationConnect APDU to the Alpha
      card application. The IFD Name shall need to be replaced with an actual
reader name when comparing the results to
      results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application DID list.
Ensure the CardApplicationList only contains
      the Alpha card application.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
```

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```
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
```

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```
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>65</refId>
      <annexAId>3</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>66</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the Alpha card application DID list. Ensure
         the CardApplicationList only contains the Alpha card
    application.</description>
      <encodedData
    type="xs:hexBinary">7F8F6014A10AA0080406E82881C1170282064150495F4F4B</encode
    dData>
    </invAspect>
    <invAspect>
      <refId>67</refId>
      <annexAId>4</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Ensure the A00000041000010001 card application
    does not exist at the following location:
         IFD Name: Blue IFD Reader SN2432A4; Slot: 1. An error response
    (API_INCORRECT_PARAMETER) is expected.</description>
      <encodedData
    type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
    2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
    8509A00000041000010001810100</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
```

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```
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
```

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```
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>81</refId>
      <annexAId>4</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>82</refId>
      <annexAId>4</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>83</refId>
      <annexAId>4</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>84</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
A00000041000010001 card application does not
     exist at the following location: IFD Name: Blue IFD Reader SN2432A4;
Slot: 1. An error response
     (API_INCORRECT_PARAMETER) is expected.</description>
  <encodedData
type="xs:hexBinary">7F8F581982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the A00000041000010001 application with all of the
access rules are set to always.</description>
  <encodedData
type="xs:hexBinary">7F8F618203CCA18203C88001008109A00000041000010001A28203B6
301F80094E616D656444617461A10D830B4461746153657 44C697374A2038101FF301F800D41
7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
617461A10F830D4461746153657443726 5617465A2038101FF302180094E616D656444617461
A10F830D4461746153657444656C657465A2038101FF3021800D417574686F72697A6174696F
6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D45786563757465416374696F6EA2038101FF3028801444696666657265 6E7469
616C4964656E74697479A10B850944494443726 5617465A2038101FF3028801444696666657265
656E7469616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F
6E6E656374696F6EA11881164361726441707 06C69636174696F6E436F6E6E656374A2038101
FF302D800F436172644170706C69636174696F6EA11582134361726441707 06C69636174696F
6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C6963
6174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B8119
436172644170706C69636174696F6E456E6453657373696F6EA2038101FF302F800F43617264
4170706C69636174696F6EA11782154361726441707 06C69636174696F6E437265617465A203
8101FF302F800F436172644170706C69636174696F6EA11782154361726441707 06C69636174
696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170
706C69636174696F6E537461727453657373696F6EA2038101FF3034800F436172644170706C
69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C697374A2
038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170706C696361
74696F6E536572766963654C6F6164A2038101FF3036800F436172644170706C69636174696F
6EA11E821C436172644170706C69636174696F6E536572766963654372656174 65A2038101FF
3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E
536572766963654465 7365A2038101FF3038800F436172644170706C69636174696F6EA1
20821E436172644170706C69636174696F6E536572766963654465736372696265A2038101FF
</encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>102</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106410495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>5</annexAId>
```

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```
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>107</refId>
      <annexAId>5</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>108</refId>
      <annexAId>5</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the
    A00000041000010001 application with all of the access rules
         are set to always.</description>
      <encodedData type="xs:hexBinary">7F8F620882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>109</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Connect to the newly created card application. Ensure that
    multiple connections to different card
         applications are supported.</description>
      <encodedData
    type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
    2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
    8509A000000410000100018101 00</encodedData>
    </invAspect>
    <invAspect>
      <refId>110</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
```

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```
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>123</refId>
      <annexAId>6</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>124</refId>
      <annexAId>6</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>125</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>126</refId>
      <annexAId>6</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the newly
created card application. Ensure that multiple
     connections to different card applications are supported.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
 <description>Retrieve the A00000041000010001 card application access rules.
Ensure that the ACL is the same as the one
     specified in the CardApplicationCreate call.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524420D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D32810082 1C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
```

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```
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>147</refId>
      <annexAId>7</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>148</refId>
      <annexAId>7</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>149</refId>
      <annexAId>7</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>150</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application access rules. Ensure
     that the ACL is the same as the one specified in the
CardApplicationCreate call.</description>
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D446174615365744
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4C6F64696679
A2038101FF3026801444696666665726 56E7469616C4964656E74697479A1098074449444C69
7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D45786563757465 41
6374696F6EA2038101FF3028801444696666665726 56E7469616C4964656E74697479A10B8509
444944437265617465A2038101FF3028801444696666665726 56E7469616C4964656E74697479
A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
154361726441707 06C69636174696F6E437265617465A2038101FF302F800F436172644170 70
6C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654372656617465A2038101FF3036800F436172644170706C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963654465C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E436172644170706C696361
74696F6E536572766963654465736372696265A2038101FF82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000010001 card application DID list.
Ensure that the DID list is empty. A newly
     created card application should have an empty DID list.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>165</refId>
      <annexAId>8</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>166</refId>
      <annexAId>8</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>167</refId>
      <annexAId>8</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>168</refId>
      <annexAId>8</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application DID list. Ensure that
     the DID list is empty. A newly created card application should have an
empty DID list.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000010001 card application data set
list. Ensure that the data set list is empty. A
     newly created card application should have an empty data set
list.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>185</refId>
      <annexAId>9</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>186</refId>
      <annexAId>9</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the
    A00000041000010001 card application data set list. Ensure
         that the data set list is empty. A newly created card application
    should have an empty data set list.</description>
      <encodedData
    type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>187</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the internal certificate DID. The internal certificate
    DID is used to verify that this is a valid
         smartcard. First create the DIDs then restrict the DID modification
    permissions. The modification access rules refer
         to the Internal and External DIDs. One of these may not have yet been
    created. This DID is actually a Simple
         Assertion DID, not an Client Application Asymmetric Internal
    Authentication DID. This simplifies the test case.
         Ensure that multiple DIDs with the same name can exist in multiple card
    applications.</description>
      <encodedData
    type="xs:hexBinary">7F90138201C4A18201C0800101810C496E7465726E616C4365727482
    072881C117030003A3028000A482019E301C800D43727970746F67726170686963A106840453
    69676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A203
```

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```
8101FF3020800D43727970746F67726170686963A10A840844656369706865 72A20382010030
20800D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726 5
6E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F
67726170686963A111840F566572696679536967 6E6174757265A203820100302880144469 66
666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101FF302980
0D43727970746F67726170686963A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F4449444417574686 5
6E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>191</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>10</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>204</refId>
      <annexAId>10</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>205</refId>
      <annexAId>10</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>206</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the internal
    certificate DID. The internal certificate DID is
          used to verify that this is a valid smartcard. First create the DIDs
    then restrict the DID modification permissions.
          The modification access rules refer to the Internal and External DIDs.
    One of these may not have yet been created.
          This DID is actually a Simple Assertion DID, not an Client Application
    Asymmetric Internal Authentication DID. This
          simplifies the test case. Ensure that multiple DIDs with the same name
    can exist in multiple card applications.</description>
```

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```
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the management external certificate DID. The
management external certificate DID is used to
     provide an external party with full privileges. First create the DIDs
then restrict the DID modification permissions.
     The modification access rules refer to the Internal and External DIDs.
This DID is actually a Simple Assertion DID,
     not an Client Application External Authenticate with Certificates DID.
This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F90138201C8A18201C480010181104D616E6745787465726E616C43
65727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F677261706869631A10A840844656369706865 72A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D
43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469 66
666572656E7469616C4964656E74697479A10885064449444765 74A2038101FF3027800D4372
7970746F67726170686963A111840F566572696795369676E6174757265A203820100302880
1444696666657 2656E7469616C4964656E74697479A10B85094449445570646174 65A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>226</refId>
       <annexAId>11</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didCreate</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Create the management
     external certificate DID. The management
          external certificate DID is used to provide an external party with full
     privileges. First create the DIDs then
          restrict the DID modification permissions. The modification access
     rules refer to the Internal and External DIDs.
          This DID is actually a Simple Assertion DID, not an Client Application
     External Authenticate with Certificates DID.
          This simplifies the test case.</description>
       <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>227</refId>
       <annexAId>12</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>aclModify</method>
       <invocationType>CALL</invocationType>
       <description>Modify the DIDUpdate access rule of the internal certificate
     DID. Set the DID update access rule to first
          require authentication of the internal and external management
     certificate DIDs.</description>
       <encodedData
     type="xs:hexBinary">7F901F8186A1818380010181154449464664552454E5449414C2D4944
     454E54495459A20E810C496E7465726E616C436572748314446966666572656E7469616C4964
     656E74697479A40B8509449445570646174 65A534A432A015800C496E7465726E616C436572
     74A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</enco
     dedData>
     </invAspect>
     <invAspect>
       <refId>228</refId>
       <annexAId>12</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
```

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```
<invAspect>
  <refId>229</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
```

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```
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>242</refId>
      <annexAId>12</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>243</refId>
      <annexAId>12</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>244</refId>
      <annexAId>12</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DIDUpdate
    access rule of the internal certificate DID. Set
          the DID update access rule to first require authentication of the
    internal and external management certificate DIDs.</description>
      <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>245</refId>
      <annexAId>13</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the internal certificate
DID. Set the ACL Modify access rule to first
     require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C800101811544494646455245 4E5449414C2D4944454E
54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
```

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```
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>261</refId>
        <annexAId>13</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>262</refId>
        <annexAId>13</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Modify the ACLModify
      access rule of the internal certificate DID. Set
           the ACL Modify access rule to first require authentication of the
      internal and external management certificate DIDs.</description>
        <encodedData type="xs:hexBinary">7F9020088206415049 5F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>263</refId>
        <annexAId>14</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>CALL</invocationType>
        <description>Modify the DIDUpdate access rule of the management external
      certificate DID. Set the DID update access
           rule to first require authentication of the internal and external
      management certificate DIDs.</description>
        <encodedData
      type="xs:hexBinary">7F901F818AA1818780010181154449464645524 54E5449414C2D4944
      454E54495459A21281104D616E6745787465726E616C436572748314446966666572656E7469
      616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E61
      6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
      FF</encodedData>
      </invAspect>
      <invAspect>
        <refId>264</refId>
        <annexAId>14</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the management external
      certificate DID. Set the DID update access rule to first require
authentication of the internal and external
      management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the management external
certificate DID. Set the ACL modify access
      rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8183A1818080010181154449464645524454E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C43657274830D17574686F72697A6174
696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</encodedDat
a>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
```

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```
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D32810821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>297</refId>
      <annexAId>15</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>298</refId>
      <annexAId>15</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the ACLModify
    access rule of the management external
         certificate DID. Set the ACL modify access rule to first require
    authentication of the internal and external
         management certificate DIDs.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>299</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the Card Holder PIN DID. The Card Holder is required
    to enter a PIN to authenticate this DID. This
         DID is actually a Simple Assertion DID, not an Client-Application
    Secure PIN Compare Authentication DID. This
         simplifies the test case.</description>
      <encodedData
    type="xs:hexBinary">7F901382021FA182021B8001018105434850494E82072881C1170300
    03A3028000A4820200301C800D43727970746F6772617068696 3A10684045369676EA2038201
    00301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D
    43727970746F6772617068696 3A10A840844656369706865 72A2038201003020800D43727970
    746F6772617068696 3A10A8408456E636970686572A2038201003021800D43727970746F6772
    6170686963A10B840947657452616E646F6DA203820100302580144469666665726 56E746961
    6C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F67726170
```

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```
686963A111840F566572696679536967 6E6174757265A2038201003029800D43727970746F67
726170686963A113841156657269667943657274696669636174 65A203820100302E80144469
66666572656E7469616C4964656E74697479A111850F4449444175746865 6E746963617465A2
038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432
A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E61
6C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479A10B
8509444944557064617465A234A432A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
```

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```
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>315</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
```

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```
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>320</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the Card Holder PIN
    DID. The Card Holder is required to enter a
        PIN to authenticate this DID. This DID is actually a Simple Assertion
    DID, not an Client-Application Secure PIN
        Compare Authentication DID. This simplifies the test
    case.</description>
      <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>321</refId>
      <annexAId>17</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the Alpha External Certificate DID. This DID is
    actually a Simple Assertion DID, not an Client
        Application External Authenticate with Certificates DID. This
    simplifies the test case.</description>
      <encodedData
    type="xs:hexBinary">7F901382022BA18202278001018111416C70686145787465726E616C
    4365727482072881C117030003A3028000A4820200301C800D43727970746F67726170686963
    A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
    697374A203810FF3020800D43727970746F67726170686963A10A84084465636970686572A2
    038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
    3021800D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580
    144469666666572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027
    800D43727970746F67726170686963A111840F566572696679536967 6E6174757265A2038201
    003029800D43727970746F67726170686963A113841156657269667943657274696669636174
    65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
    757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B860941
    434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
    104D616E6745787465726E616C43657274A10280008201FF3059801444696666665726 56E7469
    616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E61
    6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
    FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>322</refId>
      <annexAId>17</annexAId>
      <layer>GCI</layer>
```

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```
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>339</refId>
      <annexAId>17</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>340</refId>
      <annexAId>17</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>341</refId>
      <annexAId>17</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>342</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Alpha External
Certificate DID. This DID is actually a
     Simple Assertion DID, not an Client Application External Authenticate
with Certificates DID. This simplifies the test
     case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Beta External Certificate DID. This DID is
actually a Simple Assertion DID, not an Client
     Application External Authenticate with Certificates DID. This
simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382022AA18202268001018110426574614578746572 6E616C43
65727482072881C117030003A3028000A48202003018000D43727970746F6772617068696 3A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F6772617068696 3A10A840844656369706865 72A203
8201003020800D43727970746F6772617068696 3A10A8408456E636970686572A20382010030
21800D43727970746F6772617068696 3A10B4094765745261 6E646F6DA20382010030258014
446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF302780
0D43727970746F6772617068696 3A111840F5665726966795369676E6174757265A203820100
3029800D43727970746F6772617068696 3A113841156657269667943657274696666963617465
A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4449444175
7468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B86094143
4C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF3059801444696666657265 6E746961
6C4964656E74697479A10B8509444944557064617465A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>345</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>18</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>357</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>362</refId>
      <annexAId>18</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>363</refId>
      <annexAId>18</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>364</refId>
      <annexAId>18</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the Beta External
    Certificate DID. This DID is actually a
          Simple Assertion DID, not an Client Application External Authenticate
    with Certificates DID. This simplifies the test
          case.</description>
      <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>365</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceList access rule of the
A00000041000010001 application. Remove the
     ability to list card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F58A1568001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000100018 30F436172644170706C69636174696F6EA41C821A4361726441
70706C69636174696F6E536572766963654C697374A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
```

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```
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>381</refId>
        <annexAId>19</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>382</refId>
        <annexAId>19</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Modify the
      CardApplicationServiceList access rule of the
           A00000041000010001 application. Remove the ability to list card
      applications services.</description>
        <encodedData type="xs:hexBinary">7F9020082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>383</refId>
        <annexAId>20</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>CALL</invocationType>
        <description>Modify the CardApplicationServiceCreate access rule of the
      A00000041000010001 application. Remove the
           ability to create card applications services.</description>
        <encodedData
      type="xs:hexBinary">7F901F5AA1588001018110434152442D4150504C49434154494F4EA2
      0B8209A000000410000100018 30F436172644170706C69636174696F6EA41E821C4361726441
      70706C6963617469 6F6E536572766963654372656174 65A503820100</encodedData>
      </invAspect>
      <invAspect>
        <refId>384</refId>
        <annexAId>20</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>393</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>398</refId>
      <annexAId>20</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>399</refId>
      <annexAId>20</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>400</refId>
      <annexAId>20</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the
    CardApplicationServiceCreate access rule of the
          A00000041000010001 application. Remove the ability to create card
    applications services.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>401</refId>
```

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```
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceLoad access rule of the
A00000041000010001 application. Remove the
     ability to load card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F58A1568001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000100018 30F436172644170706C69636174696F6EA41C821A4361726441
70706C69636174696F6E536572766963654C6F6164A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
```

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```
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>417</refId>
        <annexAId>21</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>418</refId>
        <annexAId>21</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Modify the
      CardApplicationServiceLoad access rule of the
           A00000041000010001 application. Remove the ability to load card
      applications services.</description>
        <encodedData type="xs:hexBinary">7F9020088206415049 5F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>419</refId>
        <annexAId>22</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>CALL</invocationType>
        <description>Modify the CardApplicationServiceDelete access rule of the
      A00000041000010001 application. Remove the
           ability to delete card applications services.</description>
        <encodedData
      type="xs:hexBinary">7F901F5AA1588001018110434152442D4150504C49434154494F4EA2
      0B8209A00000041000010001830F436172644170706C69636174696F6EA41E821C4361726441
      70706C69636174696F6E536572766963654656C657465A503820100</encodedData>
      </invAspect>
      <invAspect>
        <refId>420</refId>
        <annexAId>22</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>429</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>434</refId>
      <annexAId>22</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>435</refId>
      <annexAId>22</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>436</refId>
      <annexAId>22</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the
    CardApplicationServiceDelete access rule of the
         A00000041000010001 application. Remove the ability to delete card
    applications services.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>437</refId>
```

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```
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceDescribe access rule of the
A00000041000010001 application. Remove the
     ability to describe card applications.</description>
  <encodedData
type="xs:hexBinary">7F901F5CA15A800101811043415244D4150504C49434154494F4EA2
0B8209A000000410000100018 30F436172644170706C69636174696F6EA420821E4361726441
70706C69636174696F6E536572766963654465736372696265A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
```

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```
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>453</refId>
        <annexAId>23</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>454</refId>
        <annexAId>23</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Modify the
      CardApplicationServiceDescribe access rule of the
           A00000041000010001 application. Remove the ability to describe card
      applications.</description>
        <encodedData type="xs:hexBinary">7F9020082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>455</refId>
        <annexAId>24</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>CALL</invocationType>
        <description>Modify the ExecuteAction access rule of the
      A00000041000010001 application. Remove the ability to execute
           a generic action.</description>
        <encodedData
      type="xs:hexBinary">7F901F4BA1498001018110434152442D4150504C49434154494F4EA2
      0B8209A00000041000010001830F436172644170706C69636174696F6EA40F820D4578656375
      74654163746963F6EA503820100</encodedData>
      </invAspect>
      <invAspect>
        <refId>456</refId>
        <annexAId>24</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>465</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>470</refId>
      <annexAId>24</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>471</refId>
      <annexAId>24</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>472</refId>
      <annexAId>24</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the ExecuteAction
    access rule of the A00000041000010001
          application. Remove the ability to execute a generic
    action.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>473</refId>
```

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```
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetList access rule of the A00000041000010001
application: Internal AND (CHPIN OR
     MangExternalCert OR AlphaExternalCert OR
BetaExternalCert).</description>
  <encodedData
type="xs:hexBinary">7F901F81BEA181BB8001018110434152442D4150504C49434154494F
4EA20B8209A000000410000100018309 4E616D656444617461A40D830B446174615365744C69
7374A57DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850
494EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A
8011416C70686145787465726E616C43657274A1028000820100A019801042657461457874 65
726E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>478</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>489</refId>
      <annexAId>25</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>490</refId>
      <annexAId>25</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DataSetList
    access rule of the A00000041000010001
        application: Internal AND (CHPIN OR MangExternalCert OR
    AlphaExternalCert OR BetaExternalCert).</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>491</refId>
      <annexAId>26</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify the DataSetCreate access rule of the
    A00000041000010001 application: Internal AND
        MangExternalCert.</description>
      <encodedData
    type="xs:hexBinary">7F901F76A17480010181104341524 42D4150504C49434154494F4EA2
    058209A00000041000010001831 94E616D656444617461A40F830D4461746153657443726561
    7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
    787465726E616C43657274A10280008201FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>492</refId>
      <annexAId>26</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Modify the DataSetCreate
access rule of the A00000041000010001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetDelete access rule of the
A00000041000010001 application: Internal AND
      MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A1748001018110434152442D4150504C494134154494F4EA2
0B8209A00000041000010001000183094E616D656444617461A40F830D4461746153657444656C65
7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>525</refId>
      <annexAId>27</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>526</refId>
      <annexAId>27</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DataSetDelete
    access rule of the A00000041000010001
         application: Internal AND MangExternalCert.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>527</refId>
      <annexAId>28</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify the DIDCreate access rule of the A00000041000010001
    application: Internal AND MangExternalCert.</description>
      <encodedData
    type="xs:hexBinary">7F901F7DA17B8001018110434152442D4150504C49434154494F4EA2
    0B8209A000000410000100018314446966666572656E7469616C4964656E74697479A40B8509
    4449444437265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA019
    80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>528</refId>
      <annexAId>28</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>534</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>535</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>541</refId>
      <annexAId>28</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>542</refId>
      <annexAId>28</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>543</refId>
      <annexAId>28</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>544</refId>
      <annexAId>28</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDCreate
access rule of the A00000041000010001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDDelete access rule of the A00000041000010001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F7DA17B8001018110434152442D415050
0B8209A000000410000100018314446966666572656E7469616C4964656E74697479A40B8509
44494444656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>546</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>549</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>550</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>551</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>561</refId>
      <annexAId>29</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>562</refId>
      <annexAId>29</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DIDDelete
    access rule of the A00000041000010001
         application: Internal AND MangExternalCert.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>563</refId>
      <annexAId>30</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify the ACLModify access rule of the A00000041000010001
    application: Internal AND MangExternalCert.</description>
      <encodedData
    type="xs:hexBinary">7F901F76A17480010181104341524 42D4150504C49434154494F4EA2
    0B8209A00000041000010001830D417574686F72697A6174696F6EA40B860941434C4D6F6469
    6679A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
    787465726E616C43657274A10280008201FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>564</refId>
      <annexAId>30</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>566</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>568</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>577</refId>
      <annexAId>30</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>578</refId>
      <annexAId>30</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>579</refId>
      <annexAId>30</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>580</refId>
      <annexAId>30</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the A00000041000010001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to modify the CardApplicationList access rule of the
A00000041000010001 application. This
      ACLModify shall fail as the previous ACLModify restricts permissions to
modify A00000041000010001's ACLs. Ensure the
      ACLModify access rule is enforced.</description>
  <encodedData
type="xs:hexBinary">7F901F51A14F8001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000100018 30F436172644170706C6963617469 6F6EA41582134361726441
70706C69636174696F6E4C697374A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>584</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>585</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>586</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696 4652D54432D53
657373696F6E49442D3281008210536D6172746361726453696 4652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>587</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>597</refId>
      <annexAId>31</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>598</refId>
      <annexAId>31</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to modify the
    CardApplicationList access rule of the
         A00000041000010001 application. This ACLModify shall fail as the
    previous ACLModify restricts permissions to modify
         A00000041000010001's ACLs. Ensure the ACLModify access rule is
    enforced.</description>
      <encodedData
    type="xs:hexBinary">7F9020268224415049 5F53454355249545 95F434F4E444954494F4E
    5F4E4F545F53415449534649544</encodedData>
    </invAspect>
    <invAspect>
      <refId>599</refId>
      <annexAId>32</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Authenticate the InternalCert DID. This, combined with
    MangExternalCert, shall provide us with management
         permissions to update the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
    00</encodedData>
    </invAspect>
    <invAspect>
      <refId>600</refId>
      <annexAId>32</annexAId>
      <layer>GCI</layer>
```

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```
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>603</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>613</refId>
      <annexAId>32</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>614</refId>
      <annexAId>32</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>615</refId>
      <annexAId>32</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>616</refId>
      <annexAId>32</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert DID. This, combined with
     MangExternalCert, shall provide us with management permissions to
update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the MangExternalCert DID. This, combined with
InternalCert, shall provide us with management
     permissions to update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
```

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```
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>627</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>628</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>629</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>630</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>633</refId>
      <annexAId>33</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>634</refId>
      <annexAId>33</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate the
    MangExternalCert DID. This, combined with
         InternalCert, shall provide us with management permissions to update
    the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>635</refId>
      <annexAId>34</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the 1-DS1 dataset. All authenticated users can read
    this information. Only management can update
         this information.</description>
      <encodedData
    type="xs:hexBinary">7F8F738203E0A18203DC8001018105312D445331A28203CE301F800D
    417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
    44617461A10A830844534957726974657465A234A432A015800C496E7465726E616C43657274A102
    80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
    6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
    7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
    80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
    616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
    01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
```


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```
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF30819580094E616D656444617461A10983074453494C697374A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A019801042657461457874657265726E616C43
657274A10280008201003081958009 4E616D656444617461A10983074453495 2656164A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A019801042657461457874657265726E616C43
657274A10280008201003081998009 4E616D656444617461A10D830B446174615365744C6973
74A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850 49
4EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A80
11416C706861457874657265726E616C43657274A1028000820100A019801042657461457874657265726
6E616C43657274A10280008201003081 9B80094E616D656444617461A10F830D4461746153 65
7453656C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
820100A01A8011416C706861457874657265726E616C43657274A1028000820100A019801042657461
6145787465726E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>638</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>639</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>644</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>646</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>647</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>655</refId>
      <annexAId>34</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>656</refId>
      <annexAId>34</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>657</refId>
      <annexAId>34</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>658</refId>
      <annexAId>34</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS1 dataset.
All authenticated users can read this
     information. Only management can update this information.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS1-DSI1 DSI. A DataSetCreate call automatically
selects the new DataSet. Ensure that a DSI
     can be created in the 1-DS1 DataSet without needing to invoke
DataSetSelect.</description>
  <encodedData
type="xs:hexBinary">7F8F7B34A132800101810A312D4453312D44534931822 14E616D653A
20426F62204D634C65616E3B20444F423A20323030382D31302D3033</encodedData>
</invAspect>
<invAspect>
  <refId>660</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>664</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>665</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>666</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>667</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>670</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>675</refId>
      <annexAId>35</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>676</refId>
      <annexAId>35</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 1-DS1-DSI1 DSI.
    A DataSetCreate call automatically selects
         the new DataSet. Ensure that a DSI can be created in the 1-DS1 DataSet
    without needing to invoke DataSetSelect.</description>
      <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>677</refId>
      <annexAId>36</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the 1-DS2 dataset. All authenticated users can read
    this information. Only management and the card
         holder can update this information. Ensure that a card application can
    contain multiple DataSets.</description>
      <encodedData
    type="xs:hexBinary">7F8F738203E0A18203DC8001018105312D445332A28203CE301F800D
    417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
    44617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657274A102
    80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
    6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
    7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
    80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
    616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
    01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
    800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
```

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```
657274A10280008201FF30819580094E616D656444617461A10983074453494C697374A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A019801042657461457874657265726E616C43
657274A10280008201003081958009 4E616D656444617461A10983074453495265 6164A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A019801042657461457874657265726E616C43
657274A10280008201003081998009 4E616D656444617461A10D830B446174615365744C6973
74A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800543485049
4EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A80
11416C706861457874657265726E616C43657274A1028000820100A019801042657461457874657265726
6E616C43657274A10280008201003081 9B80094E616D656444617461A10F830D446174615365
7453656C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
820100A01A8011416C706861457874657265726E616C43657274A1028000820100A0198010426574
6145787465726E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>680</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```


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```
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>681</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>682</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>683</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>684</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>686</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>689</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>691</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>696</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>697</refId>
      <annexAId>36</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>698</refId>
      <annexAId>36</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>699</refId>
      <annexAId>36</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>700</refId>
      <annexAId>36</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
```


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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS2 dataset.
All authenticated users can read this
     information. Only management and the card holder can update this
information. Ensure that a card application can
     contain multiple DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>701</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS2-DSI1 DSI. A DataSetCreate call automatically
selects the new DataSet. Ensure that a DSI
     can be created in the 1-DS2 DataSet without needing to invoke
DataSetSelect.</description>
  <encodedData
type="xs:hexBinary">7F8F7B3CA13A800101810A312D4453322D4453493182295374726565
743A203233204A61636172616E64612053743B20537572627572623A2057696E73746F6E</en
codedData>
</invAspect>
<invAspect>
  <refId>702</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>703</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>704</refId>
  <annexAId>37</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>705</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>709</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>715</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>716</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>717</refId>
      <annexAId>37</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>718</refId>
      <annexAId>37</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 1-DS2-DSI1 DSI.
    A DataSetCreate call automatically selects
         the new DataSet. Ensure that a DSI can be created in the 1-DS2 DataSet
    without needing to invoke DataSetSelect.</description>
      <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>719</refId>
      <annexAId>38</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the 1-DS2-DSI2 DSI. Ensure that a DataSet can contain
    multiple DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7B3DA13B800101810A312D4453322D44534932822A4C616E646C
    696E653A203035312036323120323833 3B204D6F62696C653A203034322038323920333831</
    encodedData>
    </invAspect>
    <invAspect>
      <refId>720</refId>
      <annexAId>38</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>721</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>722</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>723</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>724</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>725</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>727</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>731</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>733</refId>
      <annexAId>38</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>734</refId>
      <annexAId>38</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>735</refId>
      <annexAId>38</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>736</refId>
      <annexAId>38</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS2-DSI2 DSI.
Ensure that a DataSet can contain multiple
     DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>737</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3 dataset. All authenticated users, except the
Alpha DID, can read this information. Only
     management can update this information. Ensure that a card application
can contain multiple DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F738202EDA18202E98001018105312D445333A28202DB301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726974657465A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B8609 41434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF307980094E616D656444617461A10983074453494C697374A261A45F
A015800C496E7465726E616C43657274A10280008201FFA546A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA019801042657461
45787465726E616C43657274A1028000820100307980094E616D656444617461A10983074453
4952656164A261A45FA015800C496E7465726E616C43657274A10280008201FFA546A00E8005
434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FFA019801042657461457874657265726E616C43657274A1028000820100307F80094E616D656444
617461A10F830D4461746153657453656C656374A261A45FA015800C496E7465726E616C4365
7274A10280008201FFA546A00E8005434850494EA10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FFA019801042657461457874657265726E616C43657274A102
8000820100</encodedData>
</invAspect>
<invAspect>
  <refId>738</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>739</refId>
  <annexAId>39</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>740</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>741</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>745</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>746</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>747</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>748</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>751</refId>
```

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```
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>752</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>753</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>754</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>755</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>756</refId>
      <annexAId>39</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>757</refId>
      <annexAId>39</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>758</refId>
      <annexAId>39</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 1-DS3 dataset.
    All authenticated users, except the Alpha
          DID, can read this information. Only management can update this
    information. Ensure that a card application can
          contain multiple DataSets.</description>
      <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>759</refId>
```

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```
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3-DSI1 DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7B1FA11D800101810A312D4453332D44534931820C5365766572
653A204E6F6E65</encodedData>
</invAspect>
<invAspect>
  <refId>760</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>761</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>763</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>767</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>770</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>771</refId>
```

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```
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>772</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>773</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>774</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>775</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>776</refId>
      <annexAId>40</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 1-DS3-DSI1
    DSI.</description>
      <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>777</refId>
      <annexAId>41</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the 1-DS3-DSI2 DSI.</description>
      <encodedData
    type="xs:hexBinary">7F8F7B1DA11B800101810A312D4453332D44534932820A446573633A
    204E6F6E65</encodedData>
    </invAspect>
    <invAspect>
      <refId>778</refId>
      <annexAId>41</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>779</refId>
      <annexAId>41</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the command APDU from the GCI layer to the IFD
    layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>781</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>787</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>788</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>789</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>790</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>791</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>792</refId>
      <annexAId>41</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>793</refId>
      <annexAId>41</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>794</refId>
      <annexAId>41</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 1-DS3-DSI2
    DSI.</description>
      <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>795</refId>
      <annexAId>42</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the 1-DS3-DSI3 DSI.</description>
      <encodedData
    type="xs:hexBinary">7F8F7B29A127800101810A312D4453332D4453493382164E616D653A
    204E6F6E653B20446F73653A204E6F6E65</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>798</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>799</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>800</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>802</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>803</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>804</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>805</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>806</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>807</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
      <refId>808</refId>
      <annexAId>42</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>809</refId>
      <annexAId>42</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>810</refId>
      <annexAId>42</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>811</refId>
      <annexAId>42</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>812</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS3-DSI3
DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>813</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the AccessLog dataset. Only the card holder (CHPIN)
can read this information and only if logging
     has been enabled by authenticating with the global LogAccess DID. The
information is updated by the DataSetSelect
     method. Ensure that an access rule can refer to a Global
DID.</description>
  <encodedData
type="xs:hexBinary">7F8F73820281A182027D8001018109416363657373 4C6F67A282026B
301C80094E616D656444617461A10A830844534957269746 5A203820100301F800D41757468
6F72697A6174696F6EA109860741434C4C697374A2038101FF304180094E616D656444617461
A10983074453494C697374A229A427A015800C496E7465726E616C43657274A10280008201FF
A00E8005434850494EA10280008201FF304E80094E616D656444617461A10B83094453494372
65617465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E
6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10B830944
534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F72697A6174
696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305580094E61
6D656444617461A109830744534952656164A23DA43BA015800C496E7465726E616C43657274
A10280008201FFA00E8005434850494EA10280008201FFA012800941636365737 34C6F67A102
810082010030819B80094E616D656444617461A10F830D4461746153657453656C656374A27D
A47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA102
800082 01FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C
706861457874657 26E616C43657274A1028000820100A019801042657461457874657 26E616C
43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>814</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
```


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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>815</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>816</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>817</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>818</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>819</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>820</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>821</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>822</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>823</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>824</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>825</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>826</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>827</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>828</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>829</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>830</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>831</refId>
      <annexAId>43</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>832</refId>
      <annexAId>43</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>833</refId>
      <annexAId>43</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>834</refId>
      <annexAId>43</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the AccessLog
dataset. Only the card holder (CHPIN) can read
     this information and only if logging has been enabled by authenticating
with the global LogAccess DID. The
     information is updated by the DataSetSelect method. Ensure that an
access rule can refer to a Global DID.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>835</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the AccessLog DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7B12A11080010181094163636573734C6F678200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>836</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>837</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>838</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>839</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>840</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>841</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>842</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>843</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>844</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>845</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>846</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>847</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>848</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>849</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>850</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>851</refId>
      <annexAId>44</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>852</refId>
      <annexAId>44</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the AccessLog
    DSI.</description>
      <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>853</refId>
      <annexAId>45</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Authenticate as the card holder. This shall
    enable us to read the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901B12A110800101A10280008205434850494E8300</encodedDat
    a>
    </invAspect>
    <invAspect>
      <refId>854</refId>
      <annexAId>45</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>855</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>856</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>857</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>858</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>859</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>860</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>861</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>862</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>863</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>864</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>865</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>866</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>867</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>868</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>869</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>870</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition:
Authenticate as the card holder. This shall enable us
     to read the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>871</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000010001 card
application access rules. Ensure that the ACL has
     been updated appropriately.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>872</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>873</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>874</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>875</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>876</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>877</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>878</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>879</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>880</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>881</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>882</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>883</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>884</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>885</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>886</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>887</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>888</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>889</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>890</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>891</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>892</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>893</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>894</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>895</refId>
      <annexAId>46</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>896</refId>
      <annexAId>46</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>897</refId>
      <annexAId>46</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>898</refId>
      <annexAId>46</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000010001 card application
     access rules. Ensure that the ACL has been updated
appropriately.</description>
  <encodedData
type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF30268014446966666572656E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D4578656375746541637469 6F6EA203820100302B800A436F6E6E656374696F6E
A1188116436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172
644170706C69636174696F6EA11582134361726441707 06C69636174696F6E4C697374A20381
01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C
69636174696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174
696F6EA11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43
6172644170706C69636174696F6EA11782154361726441707 06C69636174696F6E44656C6574
65A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F
6E537461727453657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA1
1C821A436172644170706C69636174696F6E536572766963654C697374A2038201003034800F
436172644170706C69636174696F6EA11C821A436172644170706C69636174696F6E53657276
6963654C6F6164A2038201003036800F436172644170706C69636174696F6EA11E821C436172
644170706C69636174696F6E536572766963654372657617465A2038201003036800F43617264
4170706C69636174696F6EA11E821C436172644170706C69636174696F6E5365727669636544
656C657465A2038201003038800F436172644170706C69636174696F6EA120821E4361726441
70706C69636174696F6E536572766963654465736372696265A20382010030528009 4E616D65
6444617461A10F830D446174615365744372657617465A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
305280094E616D656444617461A10F830D446174615365744456C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E7469
7479A10B85094449444372657617465A234A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966
666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF30819980094E616D656444617461A10D830B446174615365744C697374A2
7DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861 45787465726E616C43657274A1028000820100A019801042657461457874657265 6E61
6C43657274A10280008201008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>899</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000010001 card
application DID list. Ensure that the DID list
     contains the newly created DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>900</refId>
  <annexAId>47</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>901</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>902</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>903</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>904</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>905</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>906</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>907</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>908</refId>
  <annexAId>47</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>909</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>910</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>911</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>912</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>913</refId>
      <annexAId>47</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>914</refId>
      <annexAId>47</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>915</refId>
      <annexAId>47</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>916</refId>
```

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```
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000010001 card application DID
     list. Ensure that the DID list contains the newly created
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
11416C70686145787465726E616C43657274820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>917</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000010001 card
application DataSet list. Ensure that the DataSet
     list contains the newly created DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>918</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>919</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>920</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>921</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>922</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D32810821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>923</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>924</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>925</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>926</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>927</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>928</refId>
  <annexAId>48</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>929</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>930</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32815 9687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>931</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>932</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>933</refId>
      <annexAId>48</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>934</refId>
      <annexAId>48</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the A00000041000010001 card application
         DataSet list. Ensure that the DataSet list contains the newly created
    DataSets.</description>
      <encodedData
    type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
    331A0941636365737 34C6F6782064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>935</refId>
      <annexAId>49</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Select the 1-DS1 DataSet.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001018105312D445331</encodedData>
    </invAspect>
    <invAspect>
      <refId>936</refId>
      <annexAId>49</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>937</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>938</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>939</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>940</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>941</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>942</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>943</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>944</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>945</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>946</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>947</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>948</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>949</refId>
      <annexAId>49</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>950</refId>
      <annexAId>49</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>951</refId>
      <annexAId>49</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>952</refId>
      <annexAId>49</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
```


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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
1-DS1 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>953</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 1-DS1 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>954</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>955</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>956</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>957</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>958</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>959</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>960</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>961</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>962</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>963</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>964</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>965</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>966</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>967</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>968</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>969</refId>
      <annexAId>50</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>970</refId>
      <annexAId>50</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the 1-DS1 DSI list. Ensure that the DSI list
      contains the newly created DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931820641504950495F4F4B
    </encodedData>
    </invAspect>
    <invAspect>
      <refId>971</refId>
      <annexAId>51</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Select the 1-DS2 DataSet.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001018105312D445332</encodedData>
    </invAspect>
    <invAspect>
      <refId>972</refId>
      <annexAId>51</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
      the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>973</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>974</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>975</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>976</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>977</refId>
```

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```
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>978</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>979</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>980</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>981</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>982</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>983</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>984</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>985</refId>
```

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```
      <annexAId>51</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>986</refId>
      <annexAId>51</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>987</refId>
      <annexAId>51</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>988</refId>
      <annexAId>51</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Select the
    1-DS2 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>989</refId>
```

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```
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 1-DS2 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>990</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>991</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>992</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>993</refId>
```

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```
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>994</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>995</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>996</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>997</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>998</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>999</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1000</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1001</refId>
  <annexAId>52</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1002</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726442D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1003</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1004</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1005</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1006</refId>
      <annexAId>52</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the 1-DS2 DSI list. Ensure that the DSI list
         contains the newly created DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
    44534932820641504 95F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1007</refId>
      <annexAId>53</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Select the 1-DS2 DataSet.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001018105312D445333</encodedData>
    </invAspect>
    <invAspect>
      <refId>1008</refId>
      <annexAId>53</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1009</refId>
      <annexAId>53</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1010</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1011</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1012</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1013</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1014</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1015</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1016</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1017</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1018</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1019</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1020</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1021</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1022</refId>
      <annexAId>53</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1023</refId>
      <annexAId>53</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1024</refId>
      <annexAId>53</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Select the
    1-DS2 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1025</refId>
      <annexAId>54</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Retrieve the 1-DS3 DSI list. Ensure that the
    DSI list contains the newly created DSIs.</description>
```

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```
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>1026</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1027</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1028</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1029</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1030</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1031</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1032</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1033</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
```

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```
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1034</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1035</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1036</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1037</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
      </invAspect>
      <invAspect>
        <refId>1038</refId>
        <annexAId>54</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>CALL</invocationType>
        <description>Wait for the response, from the TC Agent, to the previous
      write.</description>
        <encodedData
      type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>1039</refId>
        <annexAId>54</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1040</refId>
        <annexAId>54</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1041</refId>
        <annexAId>54</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1042</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 1-DS3 DSI list. Ensure that the DSI list
      contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D44534933820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1043</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>1044</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1045</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1046</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1047</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1048</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1049</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1050</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1051</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1052</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1053</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1054</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1055</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1056</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1057</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>1058</refId>
        <annexAId>55</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1059</refId>
        <annexAId>55</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1060</refId>
        <annexAId>55</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetSelect</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Post-condition: Select the
      AccessLog DataSet.</description>
        <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>1061</refId>
        <annexAId>56</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiList</method>
        <invocationType>CALL</invocationType>
        <description>Post-condition: Retrieve the AccessLog DSI list. Ensure that
      the DSI list contains the newly created DSI.</description>
        <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
      </invAspect>
      <invAspect>
        <refId>1062</refId>
        <annexAId>56</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1063</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1064</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1065</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1066</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1067</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1068</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1069</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1070</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1071</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1072</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1073</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1074</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1075</refId>
      <annexAId>56</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1076</refId>
      <annexAId>56</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1077</refId>
      <annexAId>56</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1078</refId>
      <annexAId>56</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
     list contains the newly created DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>1079</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A000000410010001
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>1080</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1081</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1082</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1083</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1084</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1085</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1086</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1087</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1088</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1089</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1090</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1091</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1092</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1093</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1094</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1095</refId>
      <annexAId>57</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1096</refId>
      <annexAId>57</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Disconnect
    from the A00000041000010001 application.</description>
      <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1097</refId>
      <annexAId>58</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Disconnect from the Alpha card application.
    Transmit on the IFDProxy shall be invoked to
         transmit the CardApplicationDisconnect APDU to the Alpha card
    application. After transmit has completed, disconnect
         shall be invoked on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>1098</refId>
      <annexAId>58</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
```

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```
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1099</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1100</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1101</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1102</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1103</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1104</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1105</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1106</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1107</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1108</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1109</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1110</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1111</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1112</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1113</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1114</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
```

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```
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1115</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D227572 6E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>1116</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1117</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1118</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1119</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1120</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1121</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1122</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1123</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1124</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818A181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1125</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1126</refId>
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application. Transmit
      on the IFDProxy shall be invoked to transmit the
CardApplicationDisconnect APDU to the Alpha card application. After
      transmit has completed, disconnect shall be invoked on the
IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1127</refId>
  <annexAId>59</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>1128</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContext>

       <ContextHandle>00</ContextHandle>
      </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1129</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617746361726 42D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>1130</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1131</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1132</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1133</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1134</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
```

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```
      </ns2:ReleaseContextResponse>
    </encodedData>
  </invAspect>
  <invAspect>
    <refId>1135</refId>
    <annexAId>59</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>write</method>
    <invocationType>CALL</invocationType>
    <description>The response, from the IFD layer, to the previous read. The
  payload is an XML message. The XML is the
      marshalled response object from the previous IFD
  response.</description>
    <encodedData
  type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645364652D5443
  2D53657373696F6E49442D328100821C536D617274636172645364652D54432D5365737369
  6F6E49442D328181883C6E73323A52656C65617365436F6E74657874526573706F6E73652078
  6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
  63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
  3E0A3C2F6E73323A52656C65617365436F6E74657874526573706F6E73653E</encodedData>
  </invAspect>
  <invAspect>
    <refId>1136</refId>
    <annexAId>59</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>write</method>
    <invocationType>RETURN</invocationType>
    <description>Return of the write.</description>
    <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>1137</refId>
    <annexAId>59</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>read</method>
    <invocationType>CALL</invocationType>
    <description>Wait for the response, from the TC Agent, to the previous
  write.</description>
    <encodedData
  type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
  657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
  1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
  </invAspect>
  <invAspect>
    <refId>1138</refId>
    <annexAId>59</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>read</method>
    <invocationType>RETURN</invocationType>
    <description>The response, from the TC Agent, to the previous write. The
  payload is an XML message. The XML is the
      marshalled response object from the previous IFD
  response.</description>
    <encodedData
  type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
  7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
```

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```
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1139</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1140</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>1141</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1142</refId>
  <annexAId>59</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
This shall automatically invoke
     ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1143</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData
    type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646652D54432D53
    657373696F6E49442D318100821C536D617274636172645369646652D54432D53657373696F6E
    49442D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>1144</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

C.3 Application management - application data structure construction error conditions

This appendix provides the test data and expected results, as described in Annex A.1.3, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.3.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>CALL</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
        side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
        client application side.</description>
      <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
    </invAspect>
    <invAspect>
      <refId>2</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>RETURN</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
```

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```
      read method and wait for requests. The order of this call and the read
call in relation to the client application
      side is undefined. The channel handle returned by open on the smartcard
side can be different to that returned on the
      client application side.</description>
  <encodedData
type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the Alpha card application. This
shall first invoke connect on the IFDProxy. In
      turn connect shall be invoked on the IFD layer on the client side.
After connect has completed, transmit on the
      IFDProxy shall be invoked to transmit the CardApplicationConnect APDU
to the Alpha card application. The IFD Name
      shall need to be replaced with an actual reader name when comparing the
results to results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E744170705369646452D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32820641504 95F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A20202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A20202020202020203C5365
```

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```
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The trahsmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>
```

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```
      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370 6F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370 6F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787 4526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
```

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```
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2F5726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61233E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>47</refId>
      <annexAId>2</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>48</refId>
      <annexAId>2</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Connect to
    the Alpha card application. This shall first
        invoke connect on the IFDProxy. In turn connect shall be invoked on the
    IFD layer on the client side. After connect
        has completed, transmit on the IFDProxy shall be invoked to transmit
    the CardApplicationConnect APDU to the Alpha
        card application. The IFD Name shall need to be replaced with an actual
    reader name when comparing the results to
        results from an ISO247272 stack.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>49</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the Alpha card application DID list.
    Ensure the CardApplicationList only contains
        the Alpha and card holder (A00000041000010001) card
    applications.</description>
      <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>50</refId>
      <annexAId>3</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>63</refId>
      <annexAId>3</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>64</refId>
      <annexAId>3</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>65</refId>
      <annexAId>3</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>66</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application DID list. Ensure
     the CardApplicationList only contains the Alpha and card holder
(A00000041000010001) card applications.</description>
  <encodedData
type="xs:hexBinary">7F8F601FA115A0130406E82881C117020409A00000041000010001820
64150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000010001 card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D3281008210536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>83</refId>
      <annexAId>4</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>84</refId>
      <annexAId>4</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Connect to the
    A00000041000010001 card application.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA1038001018206415049 5F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>85</refId>
      <annexAId>5</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Connect again to the A00000041000010001 card application.
    Ensure that multiple non-exclusive connections
         can exist to the same card application.</description>
      <encodedData
    type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
    2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
    8509A000000410000100018101 00</encodedData>
    </invAspect>
    <invAspect>
      <refId>86</refId>
      <annexAId>5</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>99</refId>
      <annexAId>5</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>100</refId>
      <annexAId>5</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>101</refId>
      <annexAId>5</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>102</refId>
      <annexAId>5</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect again to the
A00000041000010001 card application. Ensure that
     multiple non-exclusive connections can exist to the same card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to connect, in exclusive mode, to the
A00000041000010001 card application. Ensure an exclusive
     connection attempt shall fail when a non-exclusive connection already
exists.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000010001 8101FF</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>119</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>120</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to connect, in
    exclusive mode, to the A00000041000010001 card
        application. Ensure an exclusive connection attempt shall fail when a
    non-exclusive connection already exists.</description>
      <encodedData
    type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
    4C41424C45</encodedData>
    </invAspect>
    <invAspect>
      <refId>121</refId>
      <annexAId>7</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Disconnect from the A00000041000010001 card
    application.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800102</encodedData>
    </invAspect>
    <invAspect>
      <refId>122</refId>
      <annexAId>7</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>135</refId>
      <annexAId>7</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>136</refId>
      <annexAId>7</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>137</refId>
      <annexAId>7</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>138</refId>
      <annexAId>7</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the
A00000041000010001 card application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
 <description>Disconnect again from the A00000041000010001 card application.
After this disconnect, there shall not be
     any connections to the A00000041000010001 card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>155</refId>
      <annexAId>8</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>156</refId>
      <annexAId>8</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Disconnect again from the
    A00000041000010001 card application. After
        this disconnect, there shall not be any connections to the
    A00000041000010001 card application.</description>
      <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>157</refId>
      <annexAId>9</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Connect, in exclusive mode, to the A00000041000010001 card
    application.</description>
      <encodedData
    type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
    2D686F737432E6E65748318426C7565204946442052656164657220534E323433324134840101
    8509A00000041000010001 8101FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>158</refId>
      <annexAId>9</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
```

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```
 <description>Return of previous SAL Proxy call: Connect, in exclusive mode,
to the A00000041000010001 card
      application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
 <description>Attempt to connect to the A00000041000010001 card application.
Ensure a non-exclusive connection attempt
      shall fail when an exclusive connection already exists.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470742F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>191</refId>
      <annexAId>10</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>192</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to connect to the
    A00000041000010001 card application. Ensure
         a non-exclusive connection attempt shall fail when an exclusive
    connection already exists.</description>
      <encodedData
    type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
    4C41424C45</encodedData>
    </invAspect>
    <invAspect>
      <refId>193</refId>
      <annexAId>11</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to connect, in exclusive mode, to the
    A00000041000010001 card application. This shall fail as the
         A00000041000010001 application already has an exclusive connection to
    it.</description>
      <encodedData
    type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
    2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
    8509A00000041000010001 8101FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>194</refId>
      <annexAId>11</annexAId>
      <layer>GCI</layer>
```

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```
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>207</refId>
      <annexAId>11</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>208</refId>
      <annexAId>11</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>209</refId>
      <annexAId>11</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>210</refId>
      <annexAId>11</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to connect, in
exclusive mode, to the A00000041000010001 card
     application. This shall fail as the A00000041000010001 application
already has an exclusive connection to it.</description>
  <encodedData
type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
4C41424C45</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect the exclusive connection from the
A00000041000010001 card application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D32810082C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>227</refId>
      <annexAId>12</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>228</refId>
      <annexAId>12</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Disconnect the exclusive
    connection from the A00000041000010001 card
         application.</description>
      <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>229</refId>
      <annexAId>13</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the A00000041000020001 application with an empty
    access control list. No access rule is the same
         as an access rule that is set to never.</description>
      <encodedData
    type="xs:hexBinary">7F8F6112A1108001008109A00000041000020001A200</encodedDat
    a>
    </invAspect>
    <invAspect>
      <refId>230</refId>
      <annexAId>13</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>243</refId>
      <annexAId>13</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>244</refId>
      <annexAId>13</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>245</refId>
      <annexAId>13</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>246</refId>
      <annexAId>13</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationCreate</method>
```


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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the
A00000041000020001 application with an empty access control
     list. No access rule is the same as an access rule that is set to
never.</description>
  <encodedData type="xs:hexBinary">7F8F620882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>A connection is not allowed as there is no access rule for
the CardApplicationConnect action.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>263</refId>
      <annexAId>14</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>264</refId>
      <annexAId>14</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: A connection is not
    allowed as there is no access rule for the
         CardApplicationConnect action.</description>
      <encodedData
    type="xs:hexBinary">7F8F582682244150495F53454355524954595F434F4E444954494F4E
    5F4E4F545F534154495346494544</encodedData>
    </invAspect>
    <invAspect>
      <refId>265</refId>
      <annexAId>15</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDelete</method>
      <invocationType>CALL</invocationType>
      <description>Delete the inaccessible A00000041000020001 card
    application.</description>
      <encodedData
    type="xs:hexBinary">7F8F6310A10E8001008109A00000041000020001</encodedData>
    </invAspect>
    <invAspect>
      <refId>266</refId>
      <annexAId>15</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>279</refId>
      <annexAId>15</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>280</refId>
      <annexAId>15</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>281</refId>
      <annexAId>15</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>282</refId>
      <annexAId>15</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDelete</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the inaccessible
A00000041000020001 card application.</description>
  <encodedData type="xs:hexBinary">7F8F640882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000010001 card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D617274636172642
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A000000410000100018101 00</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>299</refId>
      <annexAId>16</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>300</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Connect to the
    A00000041000010001 card application.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>301</refId>
      <annexAId>17</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Authenticate the InternalCert DID. This, combined with
    MangExternalCert, shall provide us with management
        permissions to update the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
    00</encodedData>
    </invAspect>
    <invAspect>
      <refId>302</refId>
      <annexAId>17</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert DID. This, combined with
      MangExternalCert, shall provide us with management permissions to
update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the MangExternalCert DID. This, combined with
InternalCert, shall provide us with management
      permissions to update the certificate.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>335</refId>
      <annexAId>18</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>336</refId>
      <annexAId>18</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate the
    MangExternalCert DID. This, combined with
         InternalCert, shall provide us with management permissions to update
    the certificate.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>337</refId>
      <annexAId>19</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationCreate</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to create the A00000041000020001 application. Ensure
    that card applications can only be created
         when connected to the Alpha card application.</description>
      <encodedData
    type="xs:hexBinary">7F8F6182022BA18202278001018109A00000041000020001A2820215
    301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301F800D41
    7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
    617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D656444617461
    A10F830D4461746153657444656C657465A2038101FF3021800D417574686F72697A6174696F
    6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616C496465
    6E74697479A10985074449444C697374A2038101FF3028801444696666657265 6E7469616C49
    64656E74697479A10B85094449444374265617465A2038101FF3028801444696666657265 6E74
    69616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F6E6E65
    6374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101FF302D
```

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800F436172644170706C69636174696F6EA11582134361726441707 06C69636174696F6E4C69
7374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C6963617469
6F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B8119436172
644170706C69636174696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374
696F6EA11D811B436172644170706C69636174696F6E5374617274536573736F6EA2038101
FF</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>19</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>358</refId>
      <annexAId>19</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to create the
    A00000041000020001 application. Ensure that card
        applications can only be created when connected to the Alpha card
    application.</description>
      <encodedData
    type="xs:hexBinary">7F8F6220821E4150495F505245524551554953495445455F4E4F545F53
    4154495346494544</encodedData>
    </invAspect>
    <invAspect>
      <refId>359</refId>
      <annexAId>20</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDelete</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to delete the A00000041000010001 application. Ensure
    that card applications can only be deleted
        when connected to the Alpha card application.</description>
      <encodedData
    type="xs:hexBinary">7F8F6310A10E8001018109A00000041000010001</encodedData>
    </invAspect>
    <invAspect>
      <refId>360</refId>
      <annexAId>20</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>361</refId>
      <annexAId>20</annexAId>
      <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>364</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>374</refId>
        <annexAId>20</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>375</refId>
        <annexAId>20</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>376</refId>
        <annexAId>20</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationDelete</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Attempt to delete the
      A00000041000010001 application. Ensure that card
        applications can only be deleted when connected to the Alpha card
      application.</description>
        <encodedData
      type="xs:hexBinary">7F8F6420821E4150495F505245524551554953495445455F4E4F545F53
      4154495346494544</encodedData>
      </invAspect>
      <invAspect>
        <refId>377</refId>
        <annexAId>21</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
```

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```
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the A00000041000010001 card application as
local DIDs were authenticated.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>394</refId>
       <annexAId>21</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>cardApplicationDisconnect</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Disconnect from the
     A00000041000010001 card application as local DIDs
          were authenticated.</description>
       <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>395</refId>
       <annexAId>22</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>cardApplicationCreate</method>
       <invocationType>CALL</invocationType>
       <description>Attempt to create the A00000041000020001 application with an
     invalid service name in the access control
          list. The service name of the first access rule is 'Connectionn'.
     Ensure that an invalid service name shall generate
          an error.</description>
       <encodedData
     type="xs:hexBinary">7F8F6140A13E8001008109A00000041000020001A22E302C800B436F
     6E6E656374696F6E6EA11881164361726441707 06C69636174696F6E436F6E6E656374A20381
     01FF</encodedData>
     </invAspect>
     <invAspect>
       <refId>396</refId>
       <annexAId>22</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>397</refId>
       <annexAId>22</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465
2D54432D536573736963696F49442D328100821C536D6172746361726453696465
2D54432D536573736963696F49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>410</refId>
      <annexAId>22</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>411</refId>
      <annexAId>22</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>412</refId>
      <annexAId>22</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to create the
    A00000041000020001 application with an invalid
        service name in the access control list. The service name of the first
    access rule is 'Connectionn'. Ensure that an
        invalid service name shall generate an error.</description>
      <encodedData
    type="xs:hexBinary">7F8F621982174150495F494E434F52524543545F504152414D455445
    52</encodedData>
    </invAspect>
    <invAspect>
      <refId>413</refId>
      <annexAId>23</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to create the A00000041000020001 application with an
invalid action name in the access control
      list. The action name of the first access rule is 'DSIRead'. 'DSIRead'
is a valid action name but not in the
      'connectionServiceAction' choice field. Ensure that an invalid action
name shall generate an error.</description>
  <encodedData
type="xs:hexBinary">7F8F6130A12E8001008109A0000041000020001A21E301C800A436F
6E6E656374696F6EA1098107445349526561 64A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
```

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```
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>429</refId>
        <annexAId>23</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>430</refId>
        <annexAId>23</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationCreate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Attempt to create the
      A00000041000020001 application with an invalid
           action name in the access control list. The action name of the first
      access rule is 'DSIRead'. 'DSIRead' is a valid
           action name but not in the 'connectionServiceAction' choice field.
      Ensure that an invalid action name shall generate
           an error.</description>
        <encodedData
      type="xs:hexBinary">7F8F621982174150495F494E434F52524543545F504152414D455445
      52</encodedData>
      </invAspect>
      <invAspect>
        <refId>431</refId>
        <annexAId>24</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationCreate</method>
        <invocationType>CALL</invocationType>
        <description>Attempt to create the A00000041000020001 application with an
      unknown DID name in the access control list.
           The DID name of the first access rule is 'UnknownDID'. Ensure that an
      unknown DID shall return an error.</description>
        <encodedData
      type="xs:hexBinary">7F8F6151A14F8001008109A00000041000020001A23F303D800A436F
      6E6E656374696F6EA11881164361726441707 06C69636174696F6E436F6E6E656374A215A013
      800A556E6B6E6F776E444944A1028000820100</encodedData>
      </invAspect>
      <invAspect>
        <refId>432</refId>
        <annexAId>24</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
```

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```
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>445</refId>
        <annexAId>24</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>446</refId>
        <annexAId>24</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>447</refId>
        <annexAId>24</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>448</refId>
        <annexAId>24</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationCreate</method>
        <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Attempt to create the
A00000041000020001 application with an unknown
      DID name in the access control list. The DID name of the first access
rule is 'UnknownDID'. Ensure that an unknown
      DID shall return an error.</description>
  <encodedData
type="xs:hexBinary">7F8F621982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the Alpha card application. The next test
requires no open Alpha card application
      connections.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>465</refId>
      <annexAId>25</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>466</refId>
      <annexAId>25</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>disconnect</method>
      <invocationType>CALL</invocationType>
      <description></description>
      <encodedData>
         <ns2:Disconnect>

          <SlotHandle>00</SlotHandle>
         </ns2:Disconnect>
      </encodedData>
    </invAspect>
    <invAspect>
      <refId>467</refId>
      <annexAId>25</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>write</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the IFD XML message from the TC Proxy to the TC
    Agent. The XML is the marshalled call object
         from the previous IFD Proxy call.</description>
      <encodedData
    type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
    2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
    74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
    446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
    6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
    653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
    dedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>468</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A20202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E6563745265706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D696563323432343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653F</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>478</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the Alpha
card application. The next test requires no
      open Alpha card application connections.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to disconnect from the Alpha card application. Ensure
that an invalid connection handle shall
      return an error.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800109</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Attempt to disconnect from
the Alpha card application. Ensure that an
     invalid connection handle shall return an error.</description>
  <encodedData
type="xs:hexBinary">7F8F5A1982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Connect to the Alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E3234333241348401018
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
```

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```
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>
```

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```
        <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

        <Slot>1</Slot>

        <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

        <Result>IFD_OK</Result>

        <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646 52D5443
2D536573736 6F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>507</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

        <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
```

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```
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>523</refId>
        <annexAId>27</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>524</refId>
        <annexAId>27</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>525</refId>
        <annexAId>27</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>526</refId>
        <annexAId>27</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationConnect</method>
        <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Connect to
the Alpha card application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Ensure the CardApplicationList only contains
the Alpha card application.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>534</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>535</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>543</refId>
      <annexAId>28</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>544</refId>
      <annexAId>28</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Ensure the
    CardApplicationList only contains the Alpha
        card application.</description>
      <encodedData
    type="xs:hexBinary">7F8F601FA115A0130406E82881C117020409A0000004100001000182
    064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>545</refId>
      <annexAId>29</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Disconnect from the Alpha card application.
    Transmit on the IFDProxy shall be invoked to
        transmit the CardApplicationDisconnect APDU to the Alpha card
    application. After transmit has completed, disconnect
        shall be invoked on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>546</refId>
      <annexAId>29</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>549</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>550</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>551</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
```

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```
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>563</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D227572 6E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>566</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>568</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818A181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application. Transmit
      on the IFDProxy shall be invoked to transmit the
CardApplicationDisconnect APDU to the Alpha card application. After
      transmit has completed, disconnect shall be invoked on the
IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContext>

       <ContextHandle>00</ContextHandle>
      </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617474636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
```

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```
      </ns2:ReleaseContextResponse>
    </encodedData>
  </invAspect>
  <invAspect>
    <refId>583</refId>
    <annexAId>30</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>write</method>
    <invocationType>CALL</invocationType>
    <description>The response, from the IFD layer, to the previous read. The
  payload is an XML message. The XML is the
      marshalled response object from the previous IFD
  response.</description>
    <encodedData
  type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645364652D5443
  2D53657373696F6E49442D328100821C536D617274636172645364652D54432D5365737369
  6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657373706F6E73652078
  6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
  63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
  3E0A3C2F6E73323A52656C65617365436F6E74657874526573706F6E73653E</encodedData>
  </invAspect>
  <invAspect>
    <refId>584</refId>
    <annexAId>30</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>write</method>
    <invocationType>RETURN</invocationType>
    <description>Return of the write.</description>
    <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>585</refId>
    <annexAId>30</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>read</method>
    <invocationType>CALL</invocationType>
    <description>Wait for the response, from the TC Agent, to the previous
  write.</description>
    <encodedData
  type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
  657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
  1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
  </invAspect>
  <invAspect>
    <refId>586</refId>
    <annexAId>30</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>read</method>
    <invocationType>RETURN</invocationType>
    <description>The response, from the TC Agent, to the previous write. The
  payload is an XML message. The XML is the
      marshalled response object from the previous IFD
  response.</description>
    <encodedData
  type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
  7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
```

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```
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>587</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
This shall automatically invoke
     ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData
    type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646652D54432D53
    657373696F6E49442D318100821C536D617274636172645369646652D54432D53657373696F6E
    49442D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>592</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

C.4 Application management - second application data structure construction

This appendix provides the test data and expected results, as described in Annex A.1.4, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.4.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>CALL</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
        side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
        client application side.</description>
      <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
    </invAspect>
    <invAspect>
      <refId>2</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>RETURN</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
```

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```
      side is undefined. The channel handle returned by open on the smartcard
side can be different to that returned on the
      client application side.</description>
  <encodedData
type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the Alpha card application. This
shall first invoke connect on the IFDProxy. In
      turn connect shall be invoked on the IFD layer on the client side.
After connect has completed, transmit on the
      IFDProxy shall be invoked to transmit the CardApplicationConnect APDU
to the Alpha card application. The IFD Name
      shall need to be replaced with an actual reader name when comparing the
results to results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A20202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A20202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
```

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```
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E746578742086D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>
```


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```
            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
      </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContextResponse>

       <Result>IFD_OK</Result>

       <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A73636865656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787 4526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

     <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>
```

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```
        <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

        <Slot>1</Slot>

        <Exclusive>false</Exclusive>
       </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D61727436172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D22757263A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578748616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C7565204946442052656164657220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>47</refId>
      <annexAId>2</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>48</refId>
      <annexAId>2</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Connect to
    the Alpha card application. This shall first
        invoke connect on the IFDProxy. In turn connect shall be invoked on the
    IFD layer on the client side. After connect
        has completed, transmit on the IFDProxy shall be invoked to transmit
    the CardApplicationConnect APDU to the Alpha
        card application. The IFD Name shall need to be replaced with an actual
    reader name when comparing the results to
        results from an ISO247272 stack.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>49</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the Alpha card application DID list.
    Ensure the CardApplicationList only contains
        the Alpha and card holder (A00000041000010001) card
    applications.</description>
      <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>50</refId>
      <annexAId>3</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>63</refId>
      <annexAId>3</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>64</refId>
      <annexAId>3</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>65</refId>
      <annexAId>3</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>66</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application DID list. Ensure
     the CardApplicationList only contains the Alpha and card holder
(A00000041000010001) card applications.</description>
  <encodedData
type="xs:hexBinary">7F8F601FA115A0130406E82881C117020409A00000041000010001820
64150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Ensure the A00000041000020001 card application
does not exist at the following location:
     IFD Name: Blue IFD Reader SN2432A4; Slot: 1. An error response
(API_INCORRECT_PARAMETER) is expected.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
```

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```
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D32810821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>83</refId>
      <annexAId>4</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>84</refId>
      <annexAId>4</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
    A00000041000020001 card application does not
         exist at the following location: IFD Name: Blue IFD Reader SN2432A4;
    Slot: 1. An error response
         (API_INCORRECT_PARAMETER) is expected.</description>
      <encodedData
    type="xs:hexBinary">7F8F581982174150495F494E434F52524543545F504152414D455445
    52</encodedData>
    </invAspect>
    <invAspect>
      <refId>85</refId>
      <annexAId>5</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the A00000041000020001 application.</description>
      <encodedData
    type="xs:hexBinary">7F8F6182022BA18202278001008109A00000041000020001A2820215
    301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301F800D41
    7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
    617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D656444617461
    A10F830D44617461536574446 56C657465A2038101FF3021800D417574686F72697A6174696F
    6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616C496465
    6E74697479A10985074449444C697374A2038101FF3028801444696666657265 6E7469616C49
    64656E74697479A10B85094449444376526 17465A2038101FF3028801444696666657265 6E74
    69616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F6E6E65
```

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```
6374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101FF302D
800F436172644170706C69636174696F6EA1158213436172644170706C69636174696F6E4C69
7374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C6963617469
6F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B8119436172
644170706C69636174696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374
696F6EA11D811B436172644170706C69636174696F6E537461727453657373696F6EA2038101
FF</encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369644652D54432D53
657373696F6E49442D328100821C536D617274636172645369644652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>101</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
```

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```
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>106</refId>
      <annexAId>5</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the
    A00000041000020001 application.</description>
      <encodedData type="xs:hexBinary">7F8F620882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>107</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Connect to the newly created card application.</description>
      <encodedData
    type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
    2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
    8509A000000410000200018101008</encodedData>
    </invAspect>
    <invAspect>
      <refId>108</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>109</refId>
      <annexAId>6</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>122</refId>
      <annexAId>6</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>123</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>124</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Connect to the newly
    created card application.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>125</refId>
      <annexAId>7</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>CALL</invocationType>
```

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```
 <description>Retrieve the A00000041000020001 card application access rules.
Ensure that the ACL is the same as the one
      specified in the CardApplicationCreate call.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000020001</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>7</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>146</refId>
      <annexAId>7</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the
    A00000041000020001 card application access rules. Ensure
        that the ACL is the same as the one specified in the
    CardApplicationCreate call.</description>
      <encodedData
    type="xs:hexBinary">7F901E820225A1820219A0820215301F80094E616D656444617461A1
    0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
    860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
    437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
    657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
    A2038101FF3026801444696666665726 56E7469616C4964656E74697479A10985074449444C69
    7374A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509444944
    437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85
    0944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441
    70706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174
    696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF302E800A436F6E
    6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E656374A203
    8101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E456E
    6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43617264417070
    6C69636174696F6E5374617453657373696F6EA2038101FF82064150495F4F4B</encodedD
    ata>
    </invAspect>
    <invAspect>
      <refId>147</refId>
      <annexAId>8</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the A00000041000020001 card application DID list.
    Ensure that the DID list is empty. A newly
        created card application should have an empty DID list.</description>
      <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>148</refId>
      <annexAId>8</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>161</refId>
      <annexAId>8</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>162</refId>
      <annexAId>8</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>163</refId>
      <annexAId>8</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>164</refId>
      <annexAId>8</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000020001 card application DID list. Ensure that
     the DID list is empty. A newly created card application should have an
empty DID list.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000020001 card application data set
list. Ensure that the data set list is empty. A
     newly created card application should have an empty data set
list.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>181</refId>
      <annexAId>9</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>182</refId>
      <annexAId>9</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the
    A00000041000020001 card application data set list. Ensure
         that the data set list is empty. A newly created card application
    should have an empty data set list.</description>
      <encodedData
    type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>183</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the internal certificate DID. The internal certificate
    DID is used to verify that this is a valid
         smartcard. First create the DIDs then restrict the DID modification
    permissions. The modification access rules refer
         to the Internal and External DIDs. One of these may not have yet been
    created. This DID is actually a Simple
         Assertion DID, not an Client Application Asymmetric Internal
    Authentication DID. This simplifies the test case.
         Ensure that multiple DIDs with the same name can exist in multiple card
    applications.</description>
      <encodedData
    type="xs:hexBinary">7F90138201C4A18201C0800101810C496E7465726E616C4365727482
    072881C117030003A3028000A482019E301C800D43727970746F67726170686963A106840453
    69676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A203
```

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```
8101FF3020800D43727970746F67726170686963A10A840844656369706865 72A20382010030
20800D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726 5
6E7469616C4964656E74697479A10885064449444765 74A2038101FF3027800D43727970746F
67726170686963A111840F566572696679536967 6E6174757265A203820100302880144469 66
666572656E7469616C4964656E74697479A10B850944494455706461746 5A2038101FF302980
0D43727970746F67726170686963A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F4449444417574686 5
6E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>187</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>10</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>200</refId>
      <annexAId>10</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>201</refId>
      <annexAId>10</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>202</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the internal
    certificate DID. The internal certificate DID is
          used to verify that this is a valid smartcard. First create the DIDs
    then restrict the DID modification permissions.
          The modification access rules refer to the Internal and External DIDs.
    One of these may not have yet been created.
          This DID is actually a Simple Assertion DID, not an Client Application
    Asymmetric Internal Authentication DID. This
          simplifies the test case. Ensure that multiple DIDs with the same name
    can exist in multiple card applications.</description>
```

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```
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the management external certificate DID. The
management external certificate DID is used to
     provide an external party with full privileges. First create the DIDs
then restrict the DID modification permissions.
     The modification access rules refer to the Internal and External DIDs.
This DID is actually a Simple Assertion DID,
     not an Client Application External Authenticate with Certificates DID.
This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F90138201C8A18201C480010181104D616E6745787465726E616C43
65727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F677261706869631A10A84084465636970686572A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D
43727970746F67726170686963A10B84094765745261616E646F6DA203820100302580144469666
666572656E7469616C4964656E74697479A10885064449444765 74A2038101FF3027800D4372
7970746F67726170686963A111840F566572696795369676E6174757265A203820100302880
1444696666657265 6E7469616C4964656E74697479A10B85094449445570646174 65A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>222</refId>
       <annexAId>11</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didCreate</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Create the management
     external certificate DID. The management
          external certificate DID is used to provide an external party with full
     privileges. First create the DIDs then
          restrict the DID modification permissions. The modification access
     rules refer to the Internal and External DIDs.
          This DID is actually a Simple Assertion DID, not an Client Application
     External Authenticate with Certificates DID.
          This simplifies the test case.</description>
       <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>223</refId>
       <annexAId>12</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>aclModify</method>
       <invocationType>CALL</invocationType>
       <description>Modify the DIDUpdate access rule of the internal certificate
     DID. Modification of this DID requires self
          authentication. Ensure that a DID ACL can refer to
     itself.</description>
       <encodedData
     type="xs:hexBinary">7F901F8186A1818380010181154449464664552454E5449414C2D4944
     454E54495459A20E810C496E7465726E616C436572748314446966666572656E7469616C4964
     656E74697479A40B8509449445570646174 65A534A432A015800C496E7465726E616C436572
     74A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</enco
     dedData>
     </invAspect>
     <invAspect>
       <refId>224</refId>
       <annexAId>12</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
```

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```
<invAspect>
  <refId>225</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
```

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```
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>238</refId>
      <annexAId>12</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>239</refId>
      <annexAId>12</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>240</refId>
      <annexAId>12</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DIDUpdate
    access rule of the internal certificate DID.
          Modification of this DID requires self authentication. Ensure that a
    DID ACL can refer to itself.</description>
      <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>241</refId>
      <annexAId>13</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the internal certificate
DID. Modification of this DID requires self
     authentication. Ensure that a DID ACL can refer to
itself.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C800101811544494646455245 4E5449414C2D4944454E
54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
```

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```
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>257</refId>
        <annexAId>13</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>258</refId>
        <annexAId>13</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Modify the ACLModify
      access rule of the internal certificate DID.
           Modification of this DID requires self authentication. Ensure that a
      DID ACL can refer to itself.</description>
        <encodedData type="xs:hexBinary">7F9020088206415049 5F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>259</refId>
        <annexAId>14</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>CALL</invocationType>
        <description>Modify the DIDUpdate access rule of the management external
      certificate DID. Modification of this DID
           requires self authentication. Ensure that a DID ACL can refer to
      itself.</description>
        <encodedData
      type="xs:hexBinary">7F901F818AA1818780010181154449464645524 54E5449414C2D4944
      454E54495459A21281104D616E6745787465726E616C436572748314446966666572656E7469
      616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E61
      6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
      FF</encodedData>
      </invAspect>
      <invAspect>
        <refId>260</refId>
        <annexAId>14</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>273</refId>
        <annexAId>14</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>274</refId>
        <annexAId>14</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>275</refId>
        <annexAId>14</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>276</refId>
        <annexAId>14</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the management external
      certificate DID. Modification of this DID requires self authentication.
Ensure that a DID ACL can refer to itself.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the management external
certificate DID. Modification of this DID
      requires self authentication. Ensure that a DID ACL can refer to
itself.</description>
  <encodedData
type="xs:hexBinary">7F901F8183A1818080010181154449464645524554E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C43657274830D417574686F72697A6174
696F6EA40B860941434C4D6F64696679A534A432A015800C496E74657726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</encodedDat
a>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>15</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415O495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810082 1C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369 64652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>293</refId>
      <annexAId>15</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>294</refId>
      <annexAId>15</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the ACLModify
    access rule of the management external
         certificate DID. Modification of this DID requires self authentication.
    Ensure that a DID ACL can refer to itself.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>295</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the Card Holder PIN DID. The Card Holder is required
    to enter a PIN to authenticate this DID. This
         DID is actually a Simple Assertion DID, not an Client-Application
    Secure PIN Compare Authentication DID. This
         simplifies the test case.</description>
      <encodedData
    type="xs:hexBinary">7F901382021FA182021B8001018105434850494E82072881C1170300
    03A3028000A4820200301C800D43727970746F6772617068696 3A10684045369676EA2038201
    00301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D
    43727970746F6772617068696 3A10A840844656369706865 72A2038201003020800D43727970
    746F6772617068696 3A10A8408456E636970686572A2038201003021800D43727970746F6772
    6170686963A10B840947657452616E646F6DA2038201003025801444696666657265 6E746961
    6C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F67726170
    686963A111840F566572696679536967 6E6174757265A2038201003029800D43727970746F67
```

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726170686963A113841156657269667943657274696669636174 65A203820100302E80144469
66666572656E7469616C4964656E74697479A111850F44494441757468656E746963617465A2
038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432
A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E61
6C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479A10B
8509444944557064617465A234A432A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD layer.</description>
  <encodedData xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel API.</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>16</annexAId>

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369644652D54432D53
657373696F6E49442D328100821C536D617274636172645369644652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>311</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
```

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```
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>316</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the Card Holder PIN
    DID. The Card Holder is required to enter a
        PIN to authenticate this DID. This DID is actually a Simple Assertion
    DID, not an Client-Application Secure PIN
        Compare Authentication DID. This simplifies the test
    case.</description>
      <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>317</refId>
      <annexAId>17</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the Alpha External Certificate DID. This DID is
    actually a Simple Assertion DID, not an Client
        Application External Authenticate with Certificates DID. This
    simplifies the test case.</description>
      <encodedData
    type="xs:hexBinary">7F901382022BA18202278001018111416C70686145787465726E616C
    4365727482072881C117030003A3028000A4820200301C800D43727970746F67726170686963
    A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
    697374A203810FF3020800D43727970746F67726170686963A10A84084465636970686572A2
    038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
    3021800D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580
    144469666666572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027
    800D43727970746F67726170686963A111840F566572696679536967 6E6174757265A2038201
    003029800D43727970746F67726170686963A113841156657269667943657274696669636174
    65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
    757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B860941
    434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
    104D616E6745787465726E616C43657274A10280008201FF3059801444696666657265 6E7469
    616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E61
    6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
    FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>318</refId>
      <annexAId>17</annexAId>
      <layer>GCI</layer>
```

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```
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>335</refId>
      <annexAId>17</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>336</refId>
      <annexAId>17</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>337</refId>
      <annexAId>17</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>338</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Alpha External
Certificate DID. This DID is actually a
     Simple Assertion DID, not an Client Application External Authenticate
with Certificates DID. This simplifies the test
     case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Beta External Certificate DID. The client systems
using the smart card must provide a valid
     Certificate signed by the Beta certificate authority certificate to
authenticate this DID.</description>
  <encodedData
type="xs:hexBinary">7F901382022AA18202268001018110426574614578746572 6E616C43
65727482072881C117030003A3028000A48202003018800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865 72A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D43727970746F67726170686963A10B84094765745261 6E646F6DA20382010030258014
446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF302780
0D43727970746F67726170686963A11184 0F5665726966795369676E6174757265A203820100
3029800D43727970746F67726170686963A113841156657269667943657274696666963617465
A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4449444175
7468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B86094143
4C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF3059801444696666657265 6E746961
6C4964656E74697479A10B8509444944557064617465A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>341</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>18</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>353</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>358</refId>
      <annexAId>18</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>359</refId>
      <annexAId>18</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>360</refId>
      <annexAId>18</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the Beta External
    Certificate DID. The client systems using the
          smart card must provide a valid Certificate signed by the Beta
    certificate authority certificate to authenticate this
          DID.</description>
      <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>361</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetList access rule of the A00000041000020001
application: Internal AND (CHPIN OR
      MangExternalCert OR AlphaExternalCert).</description>
  <encodedData
type="xs:hexBinary">7F901F81A3A181A08001018110434152442D4150504C49434154494F
4EA20B8209A000000410000200018309 4E616D656444617461A40D830B446174615365744C69
7374A562A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850
494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820 1FFA01A
8011416C70686145787465726E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>364</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>377</refId>
      <annexAId>19</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>378</refId>
      <annexAId>19</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DataSetList
    access rule of the A00000041000020001
        application: Internal AND (CHPIN OR MangExternalCert OR
    AlphaExternalCert).</description>
      <encodedData type="xs:hexBinary">7F9020088206415 0495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>379</refId>
      <annexAId>20</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify the DataSetCreate access rule of the
    A00000041000020001 application: Internal AND
        MangExternalCert.</description>
      <encodedData
    type="xs:hexBinary">7F901F76A17480010181104341524 2D4150504C49434154494F4EA2
    0B8209A00000041000020001830 94E616D656444617461A40F830D4461746153657443726561
    7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
    787465726E616C43657274A10280008201FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>380</refId>
      <annexAId>20</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```


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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>Return of previous SAL Proxy call: Modify the DataSetCreate
access rule of the A00000041000020001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetDelete access rule of the
A00000041000020001 application: Internal AND
      MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A17480010181104341524 42D415050 4C49434154494F4EA2
0B8209A00000041000020001830 94E616D656444617461A40F830D4461746153657444656C65
7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>413</refId>
      <annexAId>21</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>414</refId>
      <annexAId>21</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DataSetDelete
    access rule of the A00000041000020001
         application: Internal AND MangExternalCert.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>415</refId>
      <annexAId>22</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify the DIDCreate access rule of the A00000041000020001
    application: Internal AND MangExternalCert.</description>
      <encodedData
    type="xs:hexBinary">7F901F7DA17B80010181104341524 42D4150504C49434154494F4EA2
    0B8209A00000041000020001831444696666572656E7469616C4964656E74697479A40B8509
    4449443726561746 5A534A432A015800C496E7465726E616C43657274A10280008201FFA019
    80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>416</refId>
      <annexAId>22</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>429</refId>
      <annexAId>22</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>430</refId>
      <annexAId>22</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>431</refId>
      <annexAId>22</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>432</refId>
      <annexAId>22</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDCreate
access rule of the A00000041000020001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDDelete access rule of the A00000041000020001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F7DA17B80010181104341524 42D4150504C494341544 94F4EA2
0B8209A0000004100002000183144469666665726 56E7469616C4964656E74697479A40B8509
44494444656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>449</refId>
      <annexAId>23</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>450</refId>
      <annexAId>23</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify the DIDDelete
    access rule of the A00000041000020001
         application: Internal AND MangExternalCert.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>451</refId>
      <annexAId>24</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify the ACLModify access rule of the A00000041000020001
    application: Internal AND MangExternalCert.</description>
      <encodedData
    type="xs:hexBinary">7F901F76A1748001018110434152442D4150504C49434154494F4EA2
    0B8209A00000041000020001830D417574686F72697A6174696F6EA40B860941434C4D6F6469
    6679A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
    787465726E616C43657274A10280008201FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>452</refId>
      <annexAId>24</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```


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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>465</refId>
      <annexAId>24</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>466</refId>
      <annexAId>24</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>467</refId>
      <annexAId>24</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>468</refId>
      <annexAId>24</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the A00000041000020001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to modify the CardApplicationList access rule of the
A00000041000020001 application. This
      ACLModify shall fail as the previous ACLModify restricts permissions to
modify A00000041000020001's ACLs. Ensure the
      ACLModify access rule is enforced.</description>
  <encodedData
type="xs:hexBinary">7F901F51A14F8001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000200018 30F436172644170706C69636174696F6EA41582134361726441
70706C69636174696F6E4C697374A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>478</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>485</refId>
      <annexAId>25</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>486</refId>
      <annexAId>25</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to modify the
    CardApplicationList access rule of the
         A00000041000020001 application. This ACLModify shall fail as the
    previous ACLModify restricts permissions to modify
         A00000041000020001's ACLs. Ensure the ACLModify access rule is
    enforced.</description>
      <encodedData
    type="xs:hexBinary">7F90202682244150495F53454355524954595F434F4E444954494F4E
    5F4E4F545F5841544954953464945 44</encodedData>
    </invAspect>
    <invAspect>
      <refId>487</refId>
      <annexAId>26</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Authenticate the InternalCert DID. This, combined with
    MangExternalCert, shall provide us with management
         permissions to update the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
    00</encodedData>
    </invAspect>
    <invAspect>
      <refId>488</refId>
      <annexAId>26</annexAId>
      <layer>GCI</layer>
```

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```
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures</encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>501</refId>
      <annexAId>26</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>502</refId>
      <annexAId>26</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>503</refId>
      <annexAId>26</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>504</refId>
      <annexAId>26</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert DID. This, combined with
     MangExternalCert, shall provide us with management permissions to
update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the MangExternalCert DID. This shall provide us
with management permissions to update the
     certificate.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
```

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```
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>521</refId>
      <annexAId>27</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>522</refId>
      <annexAId>27</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate the
    MangExternalCert DID. This shall provide us with
         management permissions to update the certificate.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>523</refId>
      <annexAId>28</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the 2-DS1 A00000041000020001 dataset. All
    authenticated users, except Beta, can read this
         information. Only management can update this information.</description>
      <encodedData
    type="xs:hexBinary">7F8F738202F1A18202ED8001018105322D445331A28202DF301F800D
    417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
    44617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657274A102
    80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
    6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
    7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
    80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
    616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
    01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
    800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
```

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657274A10280008201FF307A80094E616D656444617461A10983074453494C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100307A80094E616D656444617461A109830744
534952656164A262A460A015800C496E7465726E616C43657274A10280008201FFA547A00E80
05434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FFA01A8011416C70686145787465726E616C43657274A1028000820100308180080094E616D
656444617461A10F830D4461746153657453656C656374A262A460A015800C496E7465726E61
6C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA01980104D616E67
45787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E616C4365
7274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>

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```
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>534</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>535</refId>
```

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```
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>543</refId>
        <annexAId>28</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>544</refId>
        <annexAId>28</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetCreate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Create the 2-DS1
      A00000041000020001 dataset. All authenticated users,
           except Beta, can read this information. Only management can update this
      information.</description>
        <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>545</refId>
        <annexAId>29</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiCreate</method>
        <invocationType>CALL</invocationType>
        <description>Create the 2-DS1-DSI1 DSI. A DataSetCreate call automatically
      selects the new DataSet. Ensure that a DSI
           can be created in the 2-DS1 DataSet without needing to invoke
      DataSetSelect.</description>
        <encodedData
      type="xs:hexBinary">7F8F7B46A144800101810A322D4453312D44534931823349443A2031
      323334353B204E6C6173733A20433B20526573747269637469 6F6E733A204E6F6E653B20506F
      696E74733A203132</encodedData>
      </invAspect>
      <invAspect>
        <refId>546</refId>
        <annexAId>29</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>549</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>550</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>551</refId>
```

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```
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
```

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```
      <annexAId>29</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>560</refId>
      <annexAId>29</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>561</refId>
      <annexAId>29</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>562</refId>
      <annexAId>29</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 2-DS1-DSI1 DSI.
    A DataSetCreate call automatically selects
          the new DataSet. Ensure that a DSI can be created in the 2-DS1 DataSet
    without needing to invoke DataSetSelect.</description>
      <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>563</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 2-DS2 dataset. All authenticated users, except
Beta, can read this information. Only
     management can update this information.</description>
  <encodedData
type="xs:hexBinary">7F8F738202F1A18202ED8001018105322D445332A28202DF301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF307A80094E616D656444617461A10983074453494C697374A262A460
A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C7068
6145787465726E616C43657274A1028000820100307A80094E616D656444617461A109830744
534952656164A262A460A015800C496E7465726E616C43657274A10280008201FFA547A00E80
05434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FFA01A8011416C70686145787465726E616C43657274A1028000820100308180080 94E616D
656444617461A10F830D4461746153657453656C656374A262A460A015800C496E7465726E61
6C43657274A10280008201FFA547A00E8005434850494EA10280008201FFA01980104D616E67
45787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E616C4365
7274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>566</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>568</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>582</refId>
      <annexAId>30</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>583</refId>
      <annexAId>30</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>584</refId>
      <annexAId>30</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 2-DS2 dataset.
    All authenticated users, except Beta, can
        read this information. Only management can update this
    information.</description>
      <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>585</refId>
      <annexAId>31</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Create the 2-DS2-DSI1 DSI. A DataSetCreate call automatically
selects the new DataSet. Ensure that a DSI
      can be created in the 2-DS1 DataSet without needing to invoke
DataSetSelect.</description>
  <encodedData
type="xs:hexBinary">7F8F7B6BA169800101810A322D4453322D44534931825849443A2036
373839303B20436C6173733A204D3B20526573747269637469F6E733A204E6F6E653B205661
6C6964204C6F63616C69746965733A204175737472616C69616E205761746572733B20506F69
6E74733A203132</encodedData>
</invAspect>
<invAspect>
  <refId>586</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>587</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>589</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
```

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```
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>599</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>602</refId>
      <annexAId>31</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 2-DS2-DSI1 DSI.
    A DataSetCreate call automatically selects
        the new DataSet. Ensure that a DSI can be created in the 2-DS1 DataSet
    without needing to invoke DataSetSelect.</description>
      <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>603</refId>
      <annexAId>32</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the AccessLog dataset. Only the card holder (CHPIN)
    can read this information and only if logging
        has been enabled by authenticating with the global LogAccess DID. The
    information is updated by the DataSetSelect
        method. Ensure that a DataSet with the same name can exist in multiple
    card applications.</description>
      <encodedData
    type="xs:hexBinary">7F8F73820281A182027D8001018109416363657373 4C6F67A282026B
    301C80094E616D656444617461A10A830844534957726974 65A203820100301F800D41757468
    6F72697A6174696F6EA109860741434C4C697374A2038101FF304180094E616D656444617461
    A109830744534 94C697374A229A427A015800C496E7465726E616C43657274A10280008201FF
    A00E8005434850494EA10280008201FF304E80094E616D656444617461A10B83094453494372
    65617465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E
    6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10B830944
    534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
    104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F72697A6174
    696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A102
    80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305580094E61
    6D656444617461A109830744534952656164A23DA43BA015800C496E7465726E616C43657274
    A10280008201FFA00E8005434850494EA10280008201FFA012800941636365737 34C6F67A102
    810082010030819B80094E616D656444617461A10F830D4461746153657453656C656374A27D
    A47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA102
    80008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C
    706861457874657265726E616C43657274A1028000820100A019801042657461457874657265726E616C
    43657274A1028000820100</encodedData>
    </invAspect>
    <invAspect>
      <refId>604</refId>
      <annexAId>32</annexAId>
```


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```
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>32</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>616</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>32</annexAId>
```

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```
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>621</refId>
      <annexAId>32</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>622</refId>
      <annexAId>32</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>623</refId>
      <annexAId>32</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>624</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the AccessLog
dataset. Only the card holder (CHPIN) can read
     this information and only if logging has been enabled by authenticating
with the global LogAccess DID. The
     information is updated by the DataSetSelect method. Ensure that a
DataSet with the same name can exist in multiple
     card applications.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the AccessLog DSI. Ensure that a DSI with the same
name can exist in multiple card applications.</description>
  <encodedData
type="xs:hexBinary">7F8F7B12A110800101810941636365737 34C6F678200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>627</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>628</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>629</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>630</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D32810821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>33</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>635</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>636</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>638</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>639</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
```

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```
        <annexAId>33</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>641</refId>
        <annexAId>33</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>642</refId>
        <annexAId>33</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiCreate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Create the AccessLog DSI.
      Ensure that a DSI with the same name can
           exist in multiple card applications.</description>
        <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>643</refId>
        <annexAId>34</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>CALL</invocationType>
        <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
      us with permission to view the AccessLog.</description>
        <encodedData
      type="xs:hexBinary">7F901B12A110800101A10280008205434850494E8300</encodedDat
      a>
      </invAspect>
      <invAspect>
        <refId>644</refId>
        <annexAId>34</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>646</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>647</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>656</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>657</refId>
      <annexAId>34</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>658</refId>
      <annexAId>34</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>659</refId>
      <annexAId>34</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>660</refId>
      <annexAId>34</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the CHPIN DID. This shall provide us with
     permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000020001 card
application access rules. Ensure that the ACL has
     been updated appropriately.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000020001</encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>664</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>665</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>666</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D32810082C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>667</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>670</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>680</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>681</refId>
      <annexAId>35</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>682</refId>
      <annexAId>35</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>683</refId>
      <annexAId>35</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>684</refId>
      <annexAId>35</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000020001 card application
     access rules. Ensure that the ACL has been updated
appropriately.</description>
  <encodedData
type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43
6172644170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D
656444617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF305280094E616D656444617461A10F830D4461746153657444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F646966
79A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578
7465726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74
697479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469
66666572656E7469616C4964656E74697479A10B85094449444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF307E80094E616D656444617461A10D830B4461746153657 44C697374A2
62A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1
0280008201FFA01980104D616E674578746 5726E616C43657274A10280008201FFA01A801141
6C706861457874657 26E616C43657274A1028000820100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the data set list
     contains the newly created DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>686</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>689</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>691</refId>
```

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```
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>696</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>697</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>698</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>699</refId>
```

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```
      <annexAId>36</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>700</refId>
      <annexAId>36</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>701</refId>
      <annexAId>36</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>702</refId>
      <annexAId>36</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the A00000041000020001 card application DID
          list. Ensure that the data set list contains the newly created
    DIDs.</description>
      <encodedData
    type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
```

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```
741A1042657461457874657261 6E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657261 6E616C4365727482064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>703</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000020001 card
application DataSet list. Ensure that the DataSet
     list contains the newly created DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>704</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>705</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>709</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>715</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>716</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>717</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>718</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>719</refId>
      <annexAId>37</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>720</refId>
      <annexAId>37</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the A00000041000020001 card application
      DataSet list. Ensure that the DataSet list contains the newly created
    DataSets.</description>
      <encodedData
    type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
    73734C6F6782064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>721</refId>
      <annexAId>38</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Select the 2-DS1 DataSet.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
    </invAspect>
    <invAspect>
      <refId>722</refId>
      <annexAId>38</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
      the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```


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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>723</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>724</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>725</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>727</refId>
```

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```
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>731</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>733</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>734</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>735</refId>
```

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```
      <annexAId>38</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>736</refId>
      <annexAId>38</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>737</refId>
      <annexAId>38</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>738</refId>
      <annexAId>38</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Select the
    2-DS1 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>739</refId>
```

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```
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 2-DS1 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>740</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>741</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
```

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```
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>745</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>746</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>747</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>748</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>751</refId>
  <annexAId>39</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>752</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>753</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>754</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>755</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>756</refId>
      <annexAId>39</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the 2-DS1 DSI list. Ensure that the DSI list
        contains the newly created DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453312D44534931820641504 95F4F4B
    </encodedData>
    </invAspect>
    <invAspect>
      <refId>757</refId>
      <annexAId>40</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Select the 2-DS2 DataSet.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001018105322D445332</encodedData>
    </invAspect>
    <invAspect>
      <refId>758</refId>
      <annexAId>40</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>759</refId>
      <annexAId>40</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>760</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>761</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465
2D54432D53657373696F6E49442D328100821C536D6172746361726453696465
2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>763</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>767</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>770</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>771</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>772</refId>
      <annexAId>40</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>773</refId>
      <annexAId>40</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>774</refId>
      <annexAId>40</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Select the
    2-DS2 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>775</refId>
      <annexAId>41</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Retrieve the 2-DS2 DSI list. Ensure that the
    DSI list contains the newly created DSIs.</description>
```

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```
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>776</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>777</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>778</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>779</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>781</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
```

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```
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>787</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
      </invAspect>
      <invAspect>
        <refId>788</refId>
        <annexAId>41</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>CALL</invocationType>
        <description>Wait for the response, from the TC Agent, to the previous
      write.</description>
        <encodedData
      type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>789</refId>
        <annexAId>41</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>790</refId>
        <annexAId>41</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>791</refId>
        <annexAId>41</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>792</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 2-DS2 DSI list. Ensure that the DSI list
      contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D445349318206415049 5F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>793</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>794</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>795</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>798</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>799</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>800</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>802</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>803</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>804</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>805</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>806</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>807</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>808</refId>
        <annexAId>42</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>809</refId>
        <annexAId>42</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>810</refId>
        <annexAId>42</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetSelect</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Post-condition: Select the
      AccessLog DataSet.</description>
        <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>811</refId>
        <annexAId>43</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiList</method>
        <invocationType>CALL</invocationType>
        <description>Post-condition: Retrieve the AccessLog DSI list. Ensure that
      the DSI list contains the newly created DSI.</description>
        <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
      </invAspect>
      <invAspect>
        <refId>812</refId>
        <annexAId>43</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>813</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>814</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>815</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>816</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>817</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>818</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>819</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>820</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>821</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>822</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>823</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>824</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>825</refId>
      <annexAId>43</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>826</refId>
      <annexAId>43</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>827</refId>
      <annexAId>43</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>828</refId>
      <annexAId>43</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
     list contains the newly created DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>829</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A0000004100020001 card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>830</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>831</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>832</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>833</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>834</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>835</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>836</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>837</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>838</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>839</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>840</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>841</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>842</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>843</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>844</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>845</refId>
      <annexAId>44</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>846</refId>
      <annexAId>44</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Disconnect
    from the A00000041000020001 card
         application.</description>
      <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>847</refId>
      <annexAId>45</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Disconnect from the Alpha card application.
    Transmit on the IFDProxy shall be invoked to
         transmit the CardApplicationDisconnect APDU to the Alpha card
    application. After transmit has completed, disconnect
         shall be invoked on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>848</refId>
      <annexAId>45</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>849</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>850</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>851</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>852</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>853</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>854</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>855</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>856</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>857</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>858</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>859</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>860</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>861</refId>
      <annexAId>45</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>862</refId>
      <annexAId>45</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>863</refId>
      <annexAId>45</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>864</refId>
      <annexAId>45</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>disconnect</method>
```

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```
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>865</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D613233E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>866</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>867</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>868</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>869</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>870</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>871</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>872</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
```


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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>873</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>874</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>875</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>876</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application. Transmit
      on the IFDProxy shall be invoked to transmit the
CardApplicationDisconnect APDU to the Alpha card application. After
      transmit has completed, disconnect shall be invoked on the
IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>877</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>878</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContext>

       <ContextHandle>00</ContextHandle>
      </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>879</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617474636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>880</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>881</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>882</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>883</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>884</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
```

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```
      </ns2:ReleaseContextResponse>
    </encodedData>
  </invAspect>
  <invAspect>
    <refId>885</refId>
    <annexAId>46</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>write</method>
    <invocationType>CALL</invocationType>
    <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
    <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645364652D5443
2D53657373696F6E49442D328100821C536D617274636172645364652D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E74657874526573706F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E74657874526573706F6E73653E</encodedData>
  </invAspect>
  <invAspect>
    <refId>886</refId>
    <annexAId>46</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>write</method>
    <invocationType>RETURN</invocationType>
    <description>Return of the write.</description>
    <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>887</refId>
    <annexAId>46</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>read</method>
    <invocationType>CALL</invocationType>
    <description>Wait for the response, from the TC Agent, to the previous
write.</description>
    <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
  </invAspect>
  <invAspect>
    <refId>888</refId>
    <annexAId>46</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>read</method>
    <invocationType>RETURN</invocationType>
    <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
    <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
```

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```
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>889</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>890</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>891</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>892</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
This shall automatically invoke
     ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>893</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData
    type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646652D54432D53
    657373696F6E49442D318100821C536D617274636172645369646652D54432D53657373696F6E
    49442D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>894</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

C.5 Data manipulation - card application path

This appendix provides the test data and expected results, as described in Annex A.1.5, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.5.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>CALL</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
        side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
        client application side.</description>
      <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
    </invAspect>
    <invAspect>
      <refId>2</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>RETURN</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
```

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```
      side is undefined. The channel handle returned by open on the smartcard
side can be different to that returned on the
      client application side.</description>
  <encodedData
type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Ensure the A00000041000010001 card application
exist. This shall automatically invoke Open
      on the TC layer and then EstablishContext on the IFDProxy as
connectivity to the smartcard host has not yet been
      established. Then it shall invoke connect on the IFDProxy. In turn
connect shall be invoked on the IFD layer on the
      client side. After connect has completed, transmit on the IFDProxy
shall be invoked to transmit the
      CardApplicationConnect APDU to the Alpha card application. If the
sessionIdentifier field in the ChannelHandle is
      null then the SAL Proxy shall create a new TC connection. If the
sessionIdentifier field is not null then the TC
      connection must exist at this point. In this case sessionIdentifier is
null. Ensure that the card application exists
      at the following location: Host: http://smartcard-host.net; IFD Name:
Blue IFD Reader SN2432A4; Slot: 1. The
      smartcard path shall be replaced when comparing the results to those
from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8509A000000410000100018101 00</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
```

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```
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A2020202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A2020202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D3281008210536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
    IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A2020202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A2020202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
74657874526573706F6E73652086D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A323437323A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E74657448616E646C653E30303C
2F436F6E74657448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578748616E646C653E0A303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>
```

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```
      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645364652D5443
2D53657373696F6E49442D328100821C536D617274636172645364652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E73652086D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
6573736 96F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D32810082D536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>47</refId>
        <annexAId>2</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>48</refId>
        <annexAId>2</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationConnect</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
      A00000041000010001 card application exist.
           This shall automatically invoke Open on the TC layer and then
      EstablishContext on the IFDProxy as connectivity to the
           smartcard host has not yet been established. Then it shall invoke
      connect on the IFDProxy. In turn connect shall be
           invoked on the IFD layer on the client side. After connect has
      completed, transmit on the IFDProxy shall be invoked
           to transmit the CardApplicationConnect APDU to the Alpha card
      application. If the sessionIdentifier field in the
           ChannelHandle is null then the SAL Proxy shall create a new TC
      connection. If the sessionIdentifier field is not null
           then the TC connection must exist at this point. In this case
      sessionIdentifier is null. Ensure that the card
           application exists at the following location: Host: http://smartcard-
      host.net; IFD Name: Blue IFD Reader SN2432A4;
           Slot: 1. The smartcard path shall be replaced when comparing the
      results to those from an ISO247272 stack.</description>
        <encodedData
      type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>49</refId>
        <annexAId>3</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
```

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```
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the previous
connect.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>66</refId>
       <annexAId>3</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>disconnect</method>
       <invocationType>CALL</invocationType>
       <description></description>
       <encodedData>
           <ns2:Disconnect>

            <SlotHandle>00</SlotHandle>
           </ns2:Disconnect>
       </encodedData>
     </invAspect>
     <invAspect>
       <refId>67</refId>
       <annexAId>3</annexAId>
       <layer>TC</layer>
       <layerName>TC Proxy</layerName>
       <method>write</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the IFD XML message from the TC Proxy to the TC
     Agent. The XML is the marshalled call object
          from the previous IFD Proxy call.</description>
       <encodedData
     type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
     2D53657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E65
     74821C436C69656E744170705369646 52D54432D53657373696F6E49442D3281743C6E73323A
     446973636F6E6E6563742078D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
     6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
     653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
     dedData>
     </invAspect>
     <invAspect>
       <refId>68</refId>
       <annexAId>3</annexAId>
       <layer>TC</layer>
       <layerName>TC Proxy</layerName>
       <method>write</method>
       <invocationType>RETURN</invocationType>
       <description>Return of the write.</description>
       <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>69</refId>
       <annexAId>3</annexAId>
       <layer>TC</layer>
       <layerName>TC Agent</layerName>
       <method>read</method>
       <invocationType>CALL</invocationType>
       <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
```

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```
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the previous connect.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Ensure the A00000041000010001 card application
exists at the following location: IFD Name:
     Blue IFD Reader SN2432A4; Slot: 1.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E3234333241348401018509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646452D54432D53
657373696F6E49442D328100821C536D617274636172645369646452D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722O
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>85</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4652D54432D53
657373696F6E49442D328100821C536D617274636172645369646 4652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
```

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```
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
      </invAspect>
      <invAspect>
        <refId>104</refId>
        <annexAId>4</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>CALL</invocationType>
        <description>Wait for the response, from the TC Agent, to the previous
      write.</description>
        <encodedData
      type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>105</refId>
        <annexAId>4</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
             marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
             as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>106</refId>
        <annexAId>4</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
             as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
             structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>107</refId>
        <annexAId>4</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
A00000041000010001 card application exists
      at the following location: IFD Name: Blue IFD Reader SN2432A4; Slot:
2.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the previous
connect.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>116</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>124</refId>
        <annexAId>5</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>125</refId>
        <annexAId>5</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>126</refId>
        <annexAId>5</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>disconnect</method>
        <invocationType>CALL</invocationType>
        <description></description>
        <encodedData>
           <ns2:Disconnect>

              <SlotHandle>00</SlotHandle>
           </ns2:Disconnect>
        </encodedData>
      </invAspect>
      <invAspect>
        <refId>127</refId>
        <annexAId>5</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>write</method>
        <invocationType>CALL</invocationType>
        <description>Transmit the IFD XML message from the TC Proxy to the TC
      Agent. The XML is the marshalled call object
           from the previous IFD Proxy call.</description>
        <encodedData
      type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E74417070536964652D5443
      2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
```

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```
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>132</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
```

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```
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the previous connect.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Ensure the A00000041000010001 card application
exists at the following location: IFD Name:
     Red IFD Reader SNXRDL4; Slot: 1.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>6</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C7565204946442052656164657220534E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C7573697665 3E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E6563742078 6D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>
```

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```
      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A33543732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

       <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>162</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>6</annexAId>
```

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```
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>167</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>168</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
    A00000041000010001 card application exists
         at the following location: IFD Name: Red IFD Reader SNXRDL4; Slot:
    1.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>169</refId>
      <annexAId>7</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Disconnect from the previous
    connect.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>170</refId>
      <annexAId>7</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>183</refId>
      <annexAId>7</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>184</refId>
      <annexAId>7</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>185</refId>
      <annexAId>7</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>186</refId>
      <annexAId>7</annexAId>
      <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646465244
2D53657373696F6E49442D328100821C536D617274636172645369646465244D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
```

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```
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
```

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```
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the previous connect.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContext>

       <ContextHandle>00</ContextHandle>
      </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A1818580818 23C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C
2F436F6E746578744861 6E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370 6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657370 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
```

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```
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
This shall automatically invoke
     ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy. This shall automatically invoke
EstablishContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL Proxy.
This shall automatically invoke
     EstablishContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationPath</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve all slots that contain an ISO24727 smartcard that
contain a card application named
     A00000041000010001. First invoke IFD.EstablishContext as it has not yet
been invoked. Then invoke IFD.GetStatus to
     return all available slots that contain a smartcard. A
SAL.CardApplicationConnect action shall be invoked for each
     IFD slot that contains a smartcard. Each successful
SAL.CardApplicationConnect action shall also have a corresponding
     SAL.CardApplicationDisconnect action.</description>
  <encodedData
type="xs:hexBinary">7F8F552CA12AA028A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748509A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A457874616C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A737463A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C43686F6E6E656C48616E646C653E0A20202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A20202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A457874616C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>222</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>223</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C06E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A2020202020203C4368616E6E656C48616E646C
653E0A2020202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A2020202020202020203C53657373696F6E4964656E74696669
65723E436C69656E744170705369646 52D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A2020202020 3C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03F801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370 6F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E74657874486 16E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370 6F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
```

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```
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
74657874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>getStatus</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:GetStatus>

      <ContextHandle>00</ContextHandle>
     </ns2:GetStatus>
  </encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F3181D6A181D3A057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281783C6E73323A
476574537461747573 20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D69
65633A32343732373A746563683A736368656D61223E0A202020203C436F6E7465787448616E
646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A476574537461747573
3E</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8184A17A80783C6E73323A476574537461747573 20786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A3C2F6E73323A476574537461747573 82064150495F4F4B</encodedD
ata>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>getStatus</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:GetStatus>
```

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```
        <ContextHandle>00</ContextHandle>
      </ns2:GetStatus>
  </encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>getStatus</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:GetStatusResponse>

      <Result>IFD_OK</Result>

      <IFDStatus>

            <IFDName>Blue IFD Reader SN2432A4</IFDName>

            <SlotStatus>

               <Index>0</Index>

               <CardAvailable>false</CardAvailable>
            </SlotStatus>

            <SlotStatus>

               <Index>1</Index>

               <CardAvailable>true</CardAvailable>
            </SlotStatus>

            <SlotStatus>

               <Index>2</Index>

               <CardAvailable>true</CardAvailable>
            </SlotStatus>
      </IFDStatus>

      <IFDStatus>

            <IFDName>Red IFD Reader SNXRDL4</IFDName>

            <SlotStatus>

               <Index>0</Index>

               <CardAvailable>false</CardAvailable>
            </SlotStatus>

            <SlotStatus>

               <Index>1</Index>

               <CardAvailable>true</CardAvailable>
            </SlotStatus>
```

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```
            <SlotStatus>

               <Index>2</Index>

               <CardAvailable>false</CardAvailable>
            </SlotStatus>
         </IFDStatus>
        </ns2:GetStatusResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820441A182043DA03E801C536D617274636172645369646 52D
54432D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D536573
73696F6E49442D32818203F93C6E73323A4765745374617475735265737 06F6E736520786D6C
6E733A6E73323D2275726E3A69736F3A737465A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A
202020203C4946445374617475733E0A2020202020202020203C4946444E616D653E426C756520
4946442052656164657220534E3234333241343C2F4946444E616D653E0A2020202020202020
3C536C6F745374617475733E0A2020202020202020202020203C496E6465783E303C2F496E64
65783E0A2020202020202020202020203C43617264417661696C61626C653E66616C73653C2F
43617264417661696C61626C653E0A2020202020202020203C2F536C6F745374617475733E0A20
2020202020202020203C536C6F745374617475733E0A2020202020202020202020203C496E646578
3E313C2F496E6465783E0A2020202020202020202020203C43617264417661696C61626C653E
747275653C2F43617264417661696C61626C653E0A2020202020202020203C2F536C6F74537461
7475733E0A2020202020202020203C536C6F745374617475733E0A2020202020202020202020202020
3C496E6465783E323C2F496E6465783E0A2020202020202020202020203C4361726441766169
6C61626C653E747275653C2F43617264417661696C61626C653E0A2020202020202020203C2F53
6C6F745374617475733E0A202020203C2F4946445374617475733E0A202020203C4946445374
617475733E0A2020202020202020203C4946444E616D653E526564204946442052656164657220
534E585244C343C2F4946444E616D653E0A2020202020202020203C536C6F745374617475733E
0A2020202020202020202020202020203C496E6465783E303C2F496E6465783E0A2020202020202020
202020203C43617264417661696C61626C653E66616C73653C2F43617264417661696C61626C
653E0A2020202020202020203C2F536C6F745374617475733E0A2020202020202020203C536C6F74
537461747 5733E0A2020202020202020202020202020203C496E6465783E313C2F496E6465783E0A20
2020202020202020202020202020203C43617264417661696C61626C653E747275653C2F436172644176
61696C61626C653E0A2020202020202020203C2F536C6F745374617475733E0A20202020202020
203C536C6F745374617475733E0A2020202020202020202020202020203C496E6465783E323C2F496E
6465783E0A2020202020202020202020202020203C43617264417661696C61626C653E66616C73653C
2F43617264417661696C61626C653E0A2020202020202020203C2F536C6F745374617475733E0A
202020203C2F4946445374617475733E0A3C2F6E73323A4765745374617475735265737 06F6E
73653E</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```


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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646452D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F737432E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820409A18203FD808203F93C6E73323A476574537461747573
526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965
633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F
4F4B3C2F526573756C743E0A202020203C4946445374617475733E0A2020202020202020203C49
46444E616D653E426C7565204946442052656164657220534E3234333241343C2F4946444E61
6D653E0A2020202020202020203C536C6F745374617475733E0A2020202020202020202020203C
496E6465783E303C2F496E6465783E0A2020202020202020202020203C43617264417661696C
61626C653E66616C73653C2F43617264417661696C61626C653E0A2020202020202020203C2F53
6C6F745374617475733E0A2020202020202020203C536C6F745374617475733E0A202020202020
2020202020203C496E6465783E313C2F496E6465783E0A2020202020202020202020203C4361
7264417661696C61626C653E747275653C2F43617264417661696C61626C653E0A2020202020
2020203C2F536C6F745374617475733E0A2020202020202020203C536C6F745374617475733E0A
202020202020202020202020203C496E6465783E323C2F496E6465783E0A2020202020202020
2020203C43617264417661696C61626C653E747275653C2F43617264417661696C61626C653E
0A2020202020202020203C2F536C6F745374617475733E0A202020203C2F4946445374617475733
3E0A202020203C4946445374617475733E0A2020202020202020203C4946444E616D653E526564
20494644205265616465722053452444C343C2F4946444E616D653E0A2020202020202020
3C536C6F745374617475733E0A2020202020202020202020203C496E6465783E303C2F496E64
65783E0A2020202020202020202020203C43617264417661696C61626C653E66616C73653C2F
43617264417661696C61626C653E0A2020202020202020203C2F536C6F745374617475733E0A20
202020202020203C536C6F745374617475733E0A2020202020202020202020203C496E646578
3E313C2F496E6465783E0A2020202020202020202020203C43617264417661696C61626C653E
747275653C2F43617264417661696C61626C653E0A2020202020202020203C2F536C6F74537461
7475733E0A2020202020202020203C536C6F745374617475733E0A2020202020202020202020
3C496E6465783E323C2F496E6465783E0A2020202020202020202020203C4361726441766169
6C61626C653E66616C73653C2F43617264417661696C61626C653E0A2020202020202020203C2F
536C6F745374617475733E0A202020203C2F4946445374617475733E0A3C2F6E73323A476574
537461747573526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```


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```
<refId>243</refId>
<annexAId>10</annexAId>
<layer>IFD</layer>
<layerName>IFD Proxy</layerName>
<method>getStatus</method>
<invocationType>RETURN</invocationType>
<description></description>
<encodedData>
    <ns2:GetStatusResponse>

     <Result>IFD_OK</Result>

     <IFDStatus>

           <IFDName>Blue IFD Reader SN2432A4</IFDName>

           <SlotStatus>

               <Index>0</Index>

               <CardAvailable>false</CardAvailable>
           </SlotStatus>

           <SlotStatus>

               <Index>1</Index>

               <CardAvailable>true</CardAvailable>
           </SlotStatus>

           <SlotStatus>

               <Index>2</Index>

               <CardAvailable>true</CardAvailable>
           </SlotStatus>
     </IFDStatus>

     <IFDStatus>

           <IFDName>Red IFD Reader SNXRDL4</IFDName>

           <SlotStatus>

               <Index>0</Index>

               <CardAvailable>false</CardAvailable>
           </SlotStatus>

           <SlotStatus>

               <Index>1</Index>

               <CardAvailable>true</CardAvailable>
           </SlotStatus>

           <SlotStatus>

               <Index>2</Index>
```

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```
                <CardAvailable>false</CardAvailable>
              </SlotStatus>
        </IFDStatus>
      </ns2:GetStatusResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D617274636172642
2D686F73742E6E65748318426C7565204946442052656164657220534E3234333241348401018
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
```

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```
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
2020202020C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>
```

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```
          <IFDName>Blue IFD Reader SN2432A4</IFDName>

        <Slot>1</Slot>

        <Exclusive>false</Exclusive>
       </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

        <Result>IFD_OK</Result>

        <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>11</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

     <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
```

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```
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>290</refId>
        <annexAId>12</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>291</refId>
        <annexAId>12</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>disconnect</method>
        <invocationType>CALL</invocationType>
        <description></description>
        <encodedData>
           <ns2:Disconnect>

            <SlotHandle>00</SlotHandle>
           </ns2:Disconnect>
        </encodedData>
      </invAspect>
      <invAspect>
        <refId>292</refId>
        <annexAId>12</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>write</method>
        <invocationType>CALL</invocationType>
        <description>Transmit the IFD XML message from the TC Proxy to the TC
      Agent. The XML is the marshalled call object
           from the previous IFD Proxy call.</description>
        <encodedData
      type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
      2D53657373696F6E49442D328119687474703A2F2F736D617474636172642D686F73742E6E65
      74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
      446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
      6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
      653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
      dedData>
      </invAspect>
      <invAspect>
        <refId>293</refId>
        <annexAId>12</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>write</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the write.</description>
        <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
      </invAspect>
```

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```
<invAspect>
  <refId>294</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E65637443E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>298</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>302</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E6574831842 6C756520494644205265616465722053 4E323433324134840102
8509A0000004100001000 1810100</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>2</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E323C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C7565204946442052656164657220
```

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```
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E323C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>2</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

       <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
```

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```
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>
```

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```
      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>333</refId>
      <annexAId>13</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: </description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>334</refId>
      <annexAId>14</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description></description>
      <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>335</refId>
      <annexAId>14</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>336</refId>
      <annexAId>14</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the command APDU from the GCI layer to the IFD
    layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>14</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>345</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
```

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```
        <annexAId>14</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>350</refId>
        <annexAId>14</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>351</refId>
        <annexAId>14</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>disconnect</method>
        <invocationType>CALL</invocationType>
        <description></description>
        <encodedData>
           <ns2:Disconnect>

            <SlotHandle>00</SlotHandle>
           </ns2:Disconnect>
        </encodedData>
      </invAspect>
      <invAspect>
        <refId>352</refId>
        <annexAId>14</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>write</method>
        <invocationType>CALL</invocationType>
        <description>Transmit the IFD XML message from the TC Proxy to the TC
      Agent. The XML is the marshalled call object
           from the previous IFD Proxy call.</description>
        <encodedData
      type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
      74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
      446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
```

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```
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
```

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```
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>364</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData
type="xs:hexBinary">7F8F574AA148A043A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E6574831652656420494644205265616465722053 4E5852444C348401018509
A000000410000100018101 00</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Red IFD Reader SNXRDL4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820136A1820132A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D63C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861E646C653E0A202020203C4946444E616D653E52
656420494644205265616465722053E5852444C343C2F4946444E616D653E0A202020203C53
6C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F457863
6C75736976653E0A3C2F6E733A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>369</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E4A181D98081D63C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E52656420494644205265616465722053
4E5852444C343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A2020
20203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E73323A43
6F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Red IFD Reader SNXRDL4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645364652D5443
2D53657373696F6E49442D328100821C536D617274636172645364652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
65737369 6F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
```

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```
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>392</refId>
      <annexAId>15</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>393</refId>
      <annexAId>15</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: </description>
      <encodedData
    type="xs:hexBinary">7F8F580DA1038001008206415049 5F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>394</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description></description>
      <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>395</refId>
      <annexAId>16</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
```

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```
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
```

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```
      <annexAId>16</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>409</refId>
      <annexAId>16</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>410</refId>
      <annexAId>16</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>411</refId>
      <annexAId>16</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>disconnect</method>
      <invocationType>CALL</invocationType>
      <description></description>
      <encodedData>
         <ns2:Disconnect>

          <SlotHandle>00</SlotHandle>
         </ns2:Disconnect>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>416</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646452D5443
2D536573736F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>420</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA1818380818 03C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D22757 26E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: </description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>cardApplicationPath</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve all slots that
contain an ISO24727 smartcard that contain a
     card application named A00000041000010001. First invoke
IFD.EstablishContext as it has not yet been invoked. Then
     invoke IFD.GetStatus to return all available slots that contain a
smartcard. A SAL.CardApplicationConnect action
     shall be invoked for each IFD slot that contains a smartcard. Each
successful SAL.CardApplicationConnect action shall
     also have a corresponding SAL.CardApplicationDisconnect
action.</description>
  <encodedData
type="xs:hexBinary">7F8F568188A17EA07C3026831652656420494644205265616465722 0
534E5852444C348401018509A0000004100001000130288318426C7565204946442052656164
657220534E32343332413484010185 09A0000004100001000130288318426C7652049464420
52656164657220534E32343332413484010285 09A0000004100001000182064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181823C6E7332
```

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```
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E746578744861 6E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The trahsmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C
2F436F6E746578744861 6E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>432</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370 6F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657370 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E74657874526573706
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32821C436C69656E7441707053696465 2D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
```

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```
      <method>terminate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
    This shall automatically invoke
         ReleaseContext on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>441</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData
    type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645364652D54432D53
    657373696F6E49442D318100821C536D617274636172645364652D54432D53657373696F6E
    49442D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>442</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

C.6 Data manipulation – general

This appendix provides the test data and expected results, as described in Annex A.1.6, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.6.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>CALL</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
         read method and wait for requests. The order of this call and the read
    call in relation to the client application
         side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
         client application side.</description>
      <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>2</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Open the trusted channel on the smartcard host side. Next the
smartcard host server will invoke the TC
      read method and wait for requests. The order of this call and the read
call in relation to the client application
      side is undefined. The channel handle returned by open on the smartcard
side can be different to that returned on the
      client application side.</description>
  <encodedData
type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D318100821C536D617274636172645364652D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the A00000041000010001 card
application. This shall automatically invoke Open
      on the TC layer and then EstablishContext on the IFDProxy as
connectivity to the smartcard host has not yet been
      established. Then it shall invoke connect on the IFDProxy. In turn
connect shall be invoked on the IFD layer on the
      client side. After connect has completed, transmit on the IFDProxy
shall be invoked to transmit the
      CardApplicationConnect APDU to the Alpha card application. If the
sessionIdentifier field in the ChannelHandle is
      null then the SAL Proxy shall create a new TC connection. If the
sessionIdentifier field is not null then the TC
```

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```
      connection must exist at this point. In this case sessionIdentifier is
null. Ensure that the card application exists
      at the following location: Host: http://smartcard-host.net; IFD Name:
Blue IFD Reader SN2432A4; Slot: 1. The
      smartcard path shall be replaced when comparing the results to those
from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A0000004100001000181010O</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D61727463617264 2D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646E2D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContext>

       <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
      </ns2:EstablishContext>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A2020202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A2020202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E746966696572E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 4652D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
```

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```
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContext>

       <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
      </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContextResponse>

       <Result>IFD_OK</Result>

       <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646 4652D5443
```

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2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E49442D328181B23C6E73323A45737461626C697368436F6E74657874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578744861 6E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous write.</description>
  <encodedData type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The payload is an XML message. The XML is the
      marshalled response object from the previous IFD response.</description>
  <encodedData type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E74657874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578744861 6E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>

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```
      <ns2:EstablishContextResponse>

       <Result>IFD_OK</Result>

       <ContextHandle>00</ContextHandle>
      </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

         <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520496464420526561646572205 34E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C7565204946442052656164657220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
       <ns2:Connect>

        <ContextHandle>00</ContextHandle>

           <IFDName>Blue IFD Reader SN2432A4</IFDName>

        <Slot>1</Slot>

        <Exclusive>false</Exclusive>
       </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>46</refId>
        <annexAId>2</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>47</refId>
        <annexAId>2</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>48</refId>
        <annexAId>2</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationConnect</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition: Connect to
      the A00000041000010001 card application.
        This shall automatically invoke Open on the TC layer and then
      EstablishContext on the IFDProxy as connectivity to the
        smartcard host has not yet been established. Then it shall invoke
      connect on the IFDProxy. In turn connect shall be
        invoked on the IFD layer on the client side. After connect has
      completed, transmit on the IFDProxy shall be invoked
        to transmit the CardApplicationConnect APDU to the Alpha card
      application. If the sessionIdentifier field in the
        ChannelHandle is null then the SAL Proxy shall create a new TC
      connection. If the sessionIdentifier field is not null
```

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```
      then the TC connection must exist at this point. In this case
sessionIdentifier is null. Ensure that the card
      application exists at the following location: Host: http://smartcard-
host.net; IFD Name: Blue IFD Reader SN2432A4;
      Slot: 1. The smartcard path shall be replaced when comparing the
results to those from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
      with management permissions to view all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D32810082C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>65</refId>
      <annexAId>3</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>66</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the InternalCert DID. This, combined with
         MangExternalCert, shall provide us with management permissions to view
    all of the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>67</refId>
      <annexAId>4</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Authenticate the MangExternalCert DID. This
    shall provide us with management permissions
         to view all of the smart card.</description>
      <encodedData
    type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
    6572748300</encodedData>
    </invAspect>
    <invAspect>
      <refId>68</refId>
      <annexAId>4</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>81</refId>
      <annexAId>4</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>82</refId>
      <annexAId>4</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>83</refId>
      <annexAId>4</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>84</refId>
      <annexAId>4</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the MangExternalCert DID. This shall
     provide us with management permissions to view all of the smart
card.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800100A102800082054348504494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>101</refId>
      <annexAId>5</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>102</refId>
      <annexAId>5</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the CHPIN DID. This shall provide us with
         permission to view the AccessLog.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>103</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the A00000041000020001 card
    application access rules. Ensure that the ACL is as
         expected.</description>
      <encodedData
    type="xs:hexBinary">7F901D24A12280010081104341524 42D4150504C49434154494F4EA2
    0B8209A00000041000010001</encodedData>
    </invAspect>
    <invAspect>
      <refId>104</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>6</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>124</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>6</annexAId>
```

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```
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>129</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>130</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000020001 card application access
         rules. Ensure that the ACL is as expected.</description>
      <encodedData
    type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
    696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
    6E74697479A1098507444944 4C697374A2038101FF3027800F436172644170706C6963617469
    6F6EA10F820D4578656375746541637469 6F6EA203820100302B800A436F6E6E656374696F6E
    A11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172
    64417070 6C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A20381
    01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
    636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C
    69636174696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174
    696F6EA11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43
    6172644170706C69636174696F6EA11782154361726441707 06C69636174696F6E44656C6574
    65A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F
    6E537461727453657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA1
    1C821A436172644170706C69636174696F6E536572766963654C697374A2038201003034800F
    436172644170706C69636174696F6EA11C821A436172644170706C69636174696F6E53657276
    6963654C6F6164A2038201003036800F436172644170706C69636174696F6EA11E821C436172
    644170706C69636174696F6E536572766963654372656174 65A2038201003036800F43617264
    4170706C69636174696F6EA11E821C436172644170706C69636174696F6E5365727669636544
    656C657465A2038201003038800F436172644170706C69636174696F6EA120821E4361726441
    70706C69636174696F6E536572766963654465736372696265A2038201003052800 94E616D65
```

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6444617461A10F830D44617461536574437265617465A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
305280094E616D656444617461A10F830D44617461536574446 56C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E7469
7479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966
666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF30819980094E616D656444617461A10D830B446174615365744C697374A2
7DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A1028000820 1FFA01A801141
6C70686145787465726E616C43657274A1028000820100A0198010426574614 5787465726E61
6C43657274A10280008201008206415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card application DID list. Ensure that the DID list
      contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD layer.</description>
  <encodedData xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card interface, and clause 6.3.1 Encoded IFD data

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D32810821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>7</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>142</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
```

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```
        <annexAId>7</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>147</refId>
        <annexAId>7</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>148</refId>
        <annexAId>7</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didList</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
      the A00000041000010001 card application DID
           list. Ensure that the DID list contains the expected
      DIDs.</description>
        <encodedData
      type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
      741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
      11416C70686145787465726E616C4365727482064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>149</refId>
        <annexAId>8</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetList</method>
        <invocationType>CALL</invocationType>
        <description>Pre-condition: Retrieve the A00000041000010001 card
      application DataSet list. Ensure that the DataSet
           list contains the two data sets.</description>
        <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
      </invAspect>
      <invAspect>
        <refId>150</refId>
```

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```
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>8</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
```

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```
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>163</refId>
      <annexAId>8</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>164</refId>
      <annexAId>8</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>165</refId>
      <annexAId>8</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>166</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000010001 card application
     DataSet list. Ensure that the DataSet list contains the two data
sets.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
```

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```
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810 0821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>183</refId>
      <annexAId>9</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>184</refId>
      <annexAId>9</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    1-DS1 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>185</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 1-DS1 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>186</refId>
      <annexAId>10</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646526D54432D53
657373696F6E49442D328100821C536D617274636172645369646526D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS1 DSI list. Ensure that the DSI list
      contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>219</refId>
      <annexAId>11</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>220</refId>
      <annexAId>11</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    1-DS2 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>221</refId>
      <annexAId>12</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 1-DS2 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>222</refId>
      <annexAId>12</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
      the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>223</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>12</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>236</refId>
      <annexAId>12</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>237</refId>
      <annexAId>12</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>238</refId>
      <annexAId>12</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the 1-DS2 DSI list. Ensure that the DSI list
          contains the expected DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
    44534932820641504 95F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>239</refId>
      <annexAId>13</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS3 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445333</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>13</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>13</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>256</refId>
      <annexAId>13</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    1-DS3 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>257</refId>
      <annexAId>14</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 1-DS3 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>258</refId>
      <annexAId>14</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>259</refId>
      <annexAId>14</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the command APDU from the GCI layer to the IFD
    layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>272</refId>
      <annexAId>14</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>273</refId>
      <annexAId>14</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>274</refId>
      <annexAId>14</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the 1-DS3 DSI list. Ensure that the DSI list
        contains the expected DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
    445349321A0A312D4453332D4453493382064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>275</refId>
      <annexAId>15</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Select the AccessLog DataSet.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F7510A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
```

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```
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
      </invAspect>
      <invAspect>
        <refId>288</refId>
        <annexAId>15</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>CALL</invocationType>
        <description>Wait for the response, from the TC Agent, to the previous
      write.</description>
        <encodedData
      type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>289</refId>
        <annexAId>15</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>290</refId>
        <annexAId>15</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>291</refId>
        <annexAId>15</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the expected DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>304</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>16</annexAId>
```

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```
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>309</refId>
      <annexAId>16</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>310</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the AccessLog DSI list. Ensure that the DSI
         list contains the expected DSI.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
    encodedData>
    </invAspect>
    <invAspect>
      <refId>311</refId>
      <annexAId>17</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: The following set of actions shall test the
    A00000041000020001 card application
         pre-conditions.</description>
      <encodedData
    type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
    2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
    8509A000000410000200018101 00</encodedData>
    </invAspect>
    <invAspect>
      <refId>312</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>17</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>325</refId>
      <annexAId>17</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>326</refId>
      <annexAId>17</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>327</refId>
      <annexAId>17</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>328</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: The
following set of actions shall test the
     A00000041000020001 card application pre-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
     with management permissions to view all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>332</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>18</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32814687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>345</refId>
      <annexAId>18</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>346</refId>
      <annexAId>18</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the InternalCert DID. This, combined with
         MangExternalCert, shall provide us with management permissions to view
    all of the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>347</refId>
      <annexAId>19</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Authenticate the MangExternalCert DID. This
    shall provide us with management permissions
         to view all of the smart card, except the AccessLog.</description>
      <encodedData
    type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
    6572748300</encodedData>
    </invAspect>
    <invAspect>
      <refId>348</refId>
      <annexAId>19</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>361</refId>
      <annexAId>19</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>362</refId>
      <annexAId>19</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>363</refId>
      <annexAId>19</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>364</refId>
      <annexAId>19</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the MangExternalCert DID. This shall
     provide us with management permissions to view all of the smart card,
except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800101A102800082054A4850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>381</refId>
      <annexAId>20</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>382</refId>
      <annexAId>20</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the CHPIN DID. This shall provide us with
         permission to view the AccessLog.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>383</refId>
      <annexAId>21</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the A00000041000020001 card
    application access rules. Ensure that the ACL
         contains the expected access rules.</description>
      <encodedData
    type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
    0B8209A00000041000020001</encodedData>
    </invAspect>
    <invAspect>
      <refId>384</refId>
      <annexAId>21</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>21</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>405</refId>
      <annexAId>21</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>406</refId>
      <annexAId>21</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A0000004100002000l card application access
         rules. Ensure that the ACL contains the expected access
    rules.</description>
      <encodedData
    type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
    696F6EA109860741434C4C697374A2038101FF30268014446966666572656E7469616C496465
    6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
    16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
    706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
    2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
    6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
    74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43
    6172644170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D
    656444617461A10F830D44617461536574437265617465A234A432A015800C496E7465726E61
    6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
    FF305280094E616D656444617461A10F830D44617461536574446 56C657465A234A432A01580
    0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
    7274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F646966
    79A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578
    7465726E616C43657274A10280008201FF3059801444696666657 2656E7469616C4964656E74
    697479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102
    80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469
    66666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A01580
    0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
    7274A10280008201FF307E80094E616D656444617461A10D830B4461746153657 44C697374A2
```

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```
62A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657265726E616C43657274A1028000820100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the data set list
      contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>423</refId>
      <annexAId>22</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>424</refId>
      <annexAId>22</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000020001 card application DID
        list. Ensure that the data set list contains the expected
    DIDs.</description>
      <encodedData
    type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
    741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
    11416C70686145787465726E616C4365727482064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>425</refId>
      <annexAId>23</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the A00000041000020001 card
    application DataSet list. Ensure that the data set
        list contains the expected data sets.</description>
      <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>426</refId>
      <annexAId>23</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application
      DataSet list. Ensure that the data set list contains the expected data
sets.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS1 data set.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>459</refId>
      <annexAId>24</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>460</refId>
      <annexAId>24</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    2-DS1 data set.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>461</refId>
      <annexAId>25</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>462</refId>
      <annexAId>25</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
```

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```
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
```

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```
      <annexAId>25</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>476</refId>
      <annexAId>25</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>477</refId>
      <annexAId>25</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>478</refId>
      <annexAId>25</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the 2-DS1 DSI list. Ensure that the DSI list
          contains the expected DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453312D4453493182064150495F4F4B
    </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445332</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>491</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D536573736696E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>26</annexAId>
```

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```
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>496</refId>
      <annexAId>26</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    2-DS2 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>497</refId>
      <annexAId>27</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>498</refId>
      <annexAId>27</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>499</refId>
      <annexAId>27</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465
2D54432D53657373696F6E49442D328100821C536D6172746361726453696465
2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>512</refId>
      <annexAId>27</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>513</refId>
      <annexAId>27</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>514</refId>
      <annexAId>27</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the 2-DS2 DSI list. Ensure that the DSI list
        contains the expected DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D44534931820641504 95F4F4B
    </encodedData>
    </invAspect>
    <invAspect>
      <refId>515</refId>
      <annexAId>28</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>532</refId>
       <annexAId>28</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetSelect</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Pre-condition: Select the
     AccessLog DataSet.</description>
       <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>533</refId>
       <annexAId>29</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dsiList</method>
       <invocationType>CALL</invocationType>
       <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
     the DSI list contains the expected DSI.</description>
       <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
     </invAspect>
     <invAspect>
       <refId>534</refId>
       <annexAId>29</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>535</refId>
       <annexAId>29</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
     interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D32810821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>29</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>543</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>544</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>546</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
```

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```
        <annexAId>29</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>549</refId>
        <annexAId>29</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>550</refId>
        <annexAId>29</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiList</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
      the AccessLog DSI list. Ensure that the DSI
           list contains the expected DSI.</description>
        <encodedData
      type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
      encodedData>
      </invAspect>
      <invAspect>
        <refId>551</refId>
        <annexAId>30</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationDisconnect</method>
        <invocationType>CALL</invocationType>
        <description>Pre-condition: Disconnect from the A00000041000020001 card
      application as local DIDs were authenticated
           in this connection.</description>
        <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
      </invAspect>
      <invAspect>
        <refId>552</refId>
        <annexAId>30</annexAId>
        <layer>GCI</layer>
```

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```
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>563</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>565</refId>
      <annexAId>30</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>566</refId>
      <annexAId>30</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>567</refId>
      <annexAId>30</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>568</refId>
      <annexAId>30</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000020001 card application
     as local DIDs were authenticated in this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the A00000041000010001 card
application as local DIDs were authenticated
     in this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>584</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>585</refId>
      <annexAId>31</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>586</refId>
      <annexAId>31</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>disconnect</method>
      <invocationType>CALL</invocationType>
      <description></description>
      <encodedData>
         <ns2:Disconnect>

          <SlotHandle>00</SlotHandle>
         </ns2:Disconnect>
      </encodedData>
    </invAspect>
    <invAspect>
      <refId>587</refId>
      <annexAId>31</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>write</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the IFD XML message from the TC Proxy to the TC
    Agent. The XML is the marshalled call object
         from the previous IFD Proxy call.</description>
      <encodedData
    type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
    2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
    74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
    446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
    6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
    653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
    dedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>588</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A20202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E6563745265737 06F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653F</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000010001 card application
      as local DIDs were authenticated in this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>599</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000010001 card application. The
following set of actions shall test
      authentication of the A00000041000010001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
```

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```
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>603</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
```

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```
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722
0534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C7573697665E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>607</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696469645D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>616</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>627</refId>
      <annexAId>32</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>628</refId>
      <annexAId>32</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Connect to the
    A00000041000010001 card application. The following set
        of actions shall test authentication of the A00000041000010001
    application.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>629</refId>
      <annexAId>33</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the card application list while connected to the
    A00000041000010001 card application.. Ensure
        that the CardApplicationList action can be executed on a non-alpha card
    application.</description>
      <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>630</refId>
      <annexAId>33</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
```

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```
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>635</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>638</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>639</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>644</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>646</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Retrieve the card
application list while connected to the
     A00000041000010001 card application.. Ensure that the
CardApplicationList action can be executed on a non-alpha card
     application.</description>
  <encodedData
type="xs:hexBinary">7F8F602AA120A01E0406E82881C117020409A0000004100001000104
09A0000004100002000182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>647</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the CHPIN DID access rules. Ensure the CHPIN DID's
access control list can be retrieved.</description>
  <encodedData
type="xs:hexBinary">7F901D25A123800100811544494646455245 4E5449414C2D4944454E
54495459A2078105434850494E</encodedData>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>656</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>657</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>658</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>660</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>664</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>665</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>666</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>667</refId>
      <annexAId>34</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>668</refId>
      <annexAId>34</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the CHPIN DID
    access rules. Ensure the CHPIN DID's access
        control list can be retrieved.</description>
      <encodedData
    type="xs:hexBinary">7F901E820210A1820204A0820200301C800D43727970746F67726170
    686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741
    434C4C697374A2038101FF3020800D43727970746F67726170686963A10A8408446563697068
    6572A203820100302080D43727970746F67726170686963A10A8408456E636970686572A203
    8201003021800D43727970746F67726170686963A10B840947657452616E646F6DA203820100
    3025801444696666657265 6E7469616C4964656E74697479A1088506444944476574A2038101
    FF3027800D43727970746F67726170686963A111840F566572696679536967 6E6174757265A2
    038201003029800D43727970746F67726170686963A113841156657269667943657274696669
    63617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44
    494441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B
    860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A1028000820100
    A01980104D616E6745787465726E616C43657274A10280008201003059801444696666657265
    6E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465
    726E616C43657274A1028000820100A01980104D616E6745787465726E616C43657274A10280
    008201008206415049 5F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>669</refId>
      <annexAId>35</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didGet</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Retrieve the CHPIN DID. Ensure the DID can be
retrieved.</description>
  <encodedData
type="xs:hexBinary">7F901510A10E800100A10280008205434850494E</encodedData>
</invAspect>
<invAspect>
  <refId>670</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>680</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>681</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>682</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>683</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>684</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>686</refId>
       <annexAId>35</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didGet</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Retrieve the CHPIN DID.
     Ensure the DID can be retrieved.</description>
       <encodedData
     type="xs:hexBinary">7F901625A11BA0198005434850494E81072881C1170300003A2028000
     830100840082064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>687</refId>
       <annexAId>36</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetList</method>
       <invocationType>CALL</invocationType>
       <description>Attempt to retrieve the A000000041000010001 card application
     DataSet list. This action is expected to fail
          as we have not yet authenticated the Internal and CHPIN DIDs in this
     connection.</description>
       <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
     </invAspect>
     <invAspect>
       <refId>688</refId>
       <annexAId>36</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>689</refId>
       <annexAId>36</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>691</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>696</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>697</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>698</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>699</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>700</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>701</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>702</refId>
      <annexAId>36</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>703</refId>
      <annexAId>36</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>704</refId>
      <annexAId>36</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to retrieve the
    A0000041000010001 card application DataSet
        list. This action is expected to fail as we have not yet authenticated
    the Internal and CHPIN DIDs in this
        connection.</description>
      <encodedData
    type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
    5F4E4F545F534154495346494544</encodedData>
    </invAspect>
    <invAspect>
      <refId>705</refId>
      <annexAId>37</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Authenticate as the card holder (CHPIN).</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800100A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>709</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>715</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>716</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>717</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>718</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>719</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>720</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>721</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>722</refId>
       <annexAId>37</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didAuthenticate</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Authenticate as the card
     holder (CHPIN).</description>
       <encodedData
     type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>723</refId>
       <annexAId>38</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetList</method>
       <invocationType>CALL</invocationType>
       <description>Attempt to retrieve the A000000041000010001 card application
     DataSet list. This action is expected to fail
          as we have not yet authenticated the Internal DID. Ensure that the AND
     access rule operator requires both operands to
          be true.</description>
       <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
     </invAspect>
     <invAspect>
       <refId>724</refId>
       <annexAId>38</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>725</refId>
       <annexAId>38</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>727</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>731</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>733</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>734</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>735</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>736</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>737</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>738</refId>
      <annexAId>38</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>739</refId>
      <annexAId>38</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>740</refId>
      <annexAId>38</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to retrieve the
    A00000041000010001 card application DataSet
        list. This action is expected to fail as we have not yet authenticated
    the Internal DID. Ensure that the AND access
        rule operator requires both operands to be true.</description>
      <encodedData
    type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
    5F4E4F545F534154495346494544</encodedData>
    </invAspect>
    <invAspect>
      <refId>741</refId>
      <annexAId>39</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Authenticate the InternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>745</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>746</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>747</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>748</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>751</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>752</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>753</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>754</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>755</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>756</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>757</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>758</refId>
       <annexAId>39</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didAuthenticate</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Authenticate the
     InternalCert.</description>
       <encodedData
     type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>759</refId>
       <annexAId>40</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetList</method>
       <invocationType>CALL</invocationType>
      <description>Retrieve the A0000004100001001 card application DataSet list.
     This action shall now succeed. Ensure that
          the AND access rule operator requires both operands to be
     true.</description>
       <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
     </invAspect>
     <invAspect>
       <refId>760</refId>
       <annexAId>40</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>761</refId>
       <annexAId>40</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>763</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>767</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>770</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>771</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>772</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>773</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>774</refId>
      <annexAId>40</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>775</refId>
      <annexAId>40</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>776</refId>
      <annexAId>40</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the
    A0000041000010001 card application DataSet list. This
        action shall now succeed. Ensure that the AND access rule operator
    requires both operands to be true.</description>
      <encodedData
    type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
    331A094163636573734C6F6782064150495F4F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>777</refId>
      <annexAId>41</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Retrieve the 1-DS1 DataSet access rules. Ensure the 1-DS1
Data Set's access control list can be retrieved
      before executing a dataSetSelect operation.</description>
  <encodedData
type="xs:hexBinary">7F901D18A116800100810844154412D534554A2078005312D445331
</encodedData>
</invAspect>
<invAspect>
  <refId>778</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>779</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>781</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>787</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>788</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>789</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>790</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>791</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>792</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>793</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>794</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>795</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>798</refId>
      <annexAId>41</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>799</refId>
      <annexAId>41</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>800</refId>
      <annexAId>41</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the 1-DS1 DataSet
    access rules. Ensure the 1-DS1 Data Set's
         access control list can be retrieved before executing a dataSetSelect
    operation.</description>
      <encodedData
    type="xs:hexBinary">7F901E8203DEA18203D2A08203CE301F800D417574686F72697A6174
    696F6EA109860741434C4C697374A2038101FF304D80094E616D656444617461A10A83084453
    495772697465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D
    616E6745787465726E616C43657274A1028000820100304E80094E616D656444617461A10B83
    094453494376561746 5A234A432A015800C496E7465726E616C43657274A10280008201FFA0
    1980104D616E6745787465726E616C43657274A1028000820100304E80094E616D6564446174
```

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```
61A10B830944534944656C657465A234A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201003052800D41757468
6F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100
30819580094E616D656444617461A10983074453494C697374A27DA47BA015800C496E746572
6E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D61
6E6745787465726E616C43657274A1028000820100A01A8011416C706861457874657265726E616C
43657274A1028000820100A0198010426574614578746572 6E616C43657274A1028000820100
30819580094E616D656444617461A10983074453494C697374A27DA47BA015800C496E746572
6E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D61
6E6745787465726E616C43657274A1028000820100A01A8011416C706861457874657265726E616C
43657274A1028000820100A0198010426574614578746572 6E616C43657274A1028000820100
30819980094E616D656444617461A10D830B446174615365744C697374A27DA47BA015800C49
6E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA019
80104D616E6745787465726E616C43657274A1028000820100A01A8011416C70686145787465
726E616C43657274A1028000820100A0198010426574614578746572 6E616C43657274A10280
0082010030819B80094E616D656444617461A10F830D4461746153657453656C656374A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A0198010426574614578746572 6E616C43
657274A10280008201008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>802</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>803</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>804</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>805</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>806</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>807</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>808</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>809</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>810</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>811</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>812</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>813</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>814</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>815</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>816</refId>
      <annexAId>42</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>817</refId>
      <annexAId>42</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>818</refId>
      <annexAId>42</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Select the 1-DS1
    DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>819</refId>
      <annexAId>43</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiRead</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the 1-DS1-DSI1 DSI contents. Ensure that a DSI can
    be read.</description>
      <encodedData
    type="xs:hexBinary">7F900111A10F800100810A312D4453312D44534931</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>820</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>821</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>822</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>823</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>824</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>825</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>826</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>827</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>828</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>829</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>830</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>831</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
      <refId>832</refId>
      <annexAId>43</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>833</refId>
      <annexAId>43</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>834</refId>
      <annexAId>43</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>835</refId>
      <annexAId>43</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>836</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS1-DSI1
DSI contents. Ensure that a DSI can be read.</description>
  <encodedData
type="xs:hexBinary">7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F
423A20323030382D31302D303382064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>837</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect again to the A000000410000100001 card application.
Ensure that a second connection does not
      inherit the first connections privileges. The DIDs authenticated above
are local in scope. Therefore the DIDs state
      is only true in the connection in which the DID is
authenticated.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A000000410000100018101 00</encodedData>
</invAspect>
<invAspect>
  <refId>838</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>839</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>840</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>841</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>842</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>843</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>844</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>845</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>846</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>847</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>848</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>849</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>850</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>851</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>852</refId>
      <annexAId>44</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>853</refId>
      <annexAId>44</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>854</refId>
      <annexAId>44</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Connect again to the
    A0000041000010001 card application. Ensure that
        a second connection does not inherit the first connections privileges.
    The DIDs authenticated above are local in
        scope. Therefore the DIDs state is only true in the connection in which
    the DID is authenticated.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA1038001018206415049 5F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>855</refId>
      <annexAId>45</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Attempt to retrieve the A00000041000010001 card application
DataSet list. This action is expected to fail
      as we have not yet authenticated the required DIDs in this connection.
Ensure that, for local scope DIDs, the DIDs
      state is only true in the connection in which the DID is authenticated.
The Internal and CHPIN DIDs were
      authenticated in the previous connection.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>856</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>857</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>858</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>859</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>860</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>861</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>862</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>863</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>864</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>865</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>866</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>867</refId>
```

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```
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>868</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>869</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>870</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>871</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>872</refId>
      <annexAId>45</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to retrieve the
    A00000041000010001 card application DataSet
        list. This action is expected to fail as we have not yet authenticated
    the required DIDs in this connection. Ensure
        that, for local scope DIDs, the DIDs state is only true in the
    connection in which the DID is authenticated. The
        Internal and CHPIN DIDs were authenticated in the previous
    connection.</description>
      <encodedData
    type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
    5F4E4F545F534154495346494544</encodedData>
    </invAspect>
    <invAspect>
      <refId>873</refId>
      <annexAId>46</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Disconnect from the second A00000041000010001 card
    application connection.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>874</refId>
      <annexAId>46</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>875</refId>
```

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```
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>876</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>877</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>878</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>879</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>880</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>881</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>882</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>883</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>884</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>885</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>886</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>887</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>888</refId>
      <annexAId>46</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>889</refId>
      <annexAId>46</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>890</refId>
      <annexAId>46</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Disconnect from the second
    A00000041000010001 card application
         connection.</description>
      <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>891</refId>
      <annexAId>47</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000020001 card application. The
following set of actions shall test
     authentication of the A00000041000020001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>892</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>893</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>894</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>895</refId>
```

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```
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>896</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>897</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>898</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>899</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>900</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>901</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>902</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>903</refId>
  <annexAId>47</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>904</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>905</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>906</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>907</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>908</refId>
      <annexAId>47</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Connect to the
    A00000041000020001 card application. The following set
         of actions shall test authentication of the A00000041000020001
    application.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>909</refId>
      <annexAId>48</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didGet</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the A00000041000020001 AlphaExternalCert
    DID.</description>
      <encodedData
    type="xs:hexBinary">7F90151DA11A800101A10280008211416C70686145787465726E616C
    43657274</encodedData>
    </invAspect>
    <invAspect>
      <refId>910</refId>
      <annexAId>48</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>911</refId>
      <annexAId>48</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>912</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>913</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>914</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>915</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>916</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>917</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>918</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>919</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>920</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>921</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>922</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>923</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>924</refId>
      <annexAId>48</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>925</refId>
      <annexAId>48</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>926</refId>
      <annexAId>48</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didGet</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the
    A00000041000020001 AlphaExternalCert DID.</description>
      <encodedData
    type="xs:hexBinary">7F901631A127A0258011416C70686145787465726E616C4365727481
    072881C117030003A20280008301008400820641504 95F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>927</refId>
      <annexAId>49</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Attempt to retrieve the A00000041000020001 card application
DataSet list. This action is expected to fail
      as we have not yet authenticated the Internal and AlphaExternalCert
DIDs in this connection.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>928</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>929</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>930</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>931</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>932</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>933</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>934</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>935</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>936</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>937</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>938</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>939</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>940</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>941</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>942</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>943</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>944</refId>
       <annexAId>49</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetList</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Attempt to retrieve the
     A00000041000020001 card application DataSet
          list. This action is expected to fail as we have not yet authenticated
     the Internal and AlphaExternalCert DIDs in
          this connection.</description>
       <encodedData
     type="xs:hexBinary">7F8F722682244150495F534543555249545595F434F4E444954494F4E
     5F4E4F545F534154495346494544</encodedData>
     </invAspect>
     <invAspect>
       <refId>945</refId>
       <annexAId>50</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didAuthenticate</method>
       <invocationType>CALL</invocationType>
       <description>Authenticate the Alpha external DID.</description>
       <encodedData
     type="xs:hexBinary">7F901B1EA11C800101A10280008211416C70686145787465726E616C
     436572748300</encodedData>
     </invAspect>
     <invAspect>
       <refId>946</refId>
       <annexAId>50</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>947</refId>
       <annexAId>50</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>948</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>949</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>950</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
6573736F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>951</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>952</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>953</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>954</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>955</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>956</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>957</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>958</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>959</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>960</refId>
        <annexAId>50</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>961</refId>
        <annexAId>50</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>962</refId>
        <annexAId>50</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Authenticate the Alpha
      external DID.</description>
        <encodedData
      type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>963</refId>
        <annexAId>51</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetList</method>
        <invocationType>CALL</invocationType>
```

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```
  <description>Attempt to retrieve the A00000041000020001 card application
DataSet list. This action is expected to fail
      as we have not yet authenticated the Internal DID. Ensure that the AND
access rule operator requires both operands to
      be true. Ensure that the authenticated DIDs with the same name in a
different card application and different
      connection do not affect the DIDs in this card application and
connection.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>964</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>965</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>966</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>967</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>968</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>969</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>970</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>971</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>972</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>973</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>974</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>975</refId>
```

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```
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>976</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361722642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>977</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>978</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>979</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>980</refId>
      <annexAId>51</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to retrieve the
    A00000041000020001 card application DataSet
         list. This action is expected to fail as we have not yet authenticated
    the Internal DID. Ensure that the AND access
         rule operator requires both operands to be true. Ensure that the
    authenticated DIDs with the same name in a different
         card application and different connection do not affect the DIDs in
    this card application and connection.</description>
      <encodedData
    type="xs:hexBinary">7F8F722682244150495F53454355524954595F434F4E444954494F4E
    5F4E4F545F534154495346494544</encodedData>
    </invAspect>
    <invAspect>
      <refId>981</refId>
      <annexAId>52</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Authenticate the InternalCert.</description>
      <encodedData
    type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
    00</encodedData>
    </invAspect>
    <invAspect>
      <refId>982</refId>
      <annexAId>52</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>983</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>984</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>985</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>986</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>987</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>988</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>989</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>990</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>991</refId>
  <annexAId>52</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>992</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>993</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>994</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>995</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>996</refId>
      <annexAId>52</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>997</refId>
      <annexAId>52</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>998</refId>
      <annexAId>52</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate the
    InternalCert.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>999</refId>
      <annexAId>53</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
```

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```
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
 <description>Retrieve the A00000041000020001 card application DataSet list.
This action shall now succeed. Ensure that
     the AND and OR access rule expressions are tested.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>1000</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1001</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1002</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1003</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1004</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1005</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1006</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1007</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1008</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1009</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1010</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1011</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1012</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1013</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1014</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1015</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1016</refId>
      <annexAId>53</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the
    A00000041000020001 card application DataSet list. This
        action shall now succeed. Ensure that the AND and OR access rule
    expressions are tested.</description>
      <encodedData
    type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
    73734C6F6782064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1017</refId>
      <annexAId>54</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Select the 2-DS1 data set.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
    </invAspect>
    <invAspect>
      <refId>1018</refId>
      <annexAId>54</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1019</refId>
      <annexAId>54</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the command APDU from the GCI layer to the IFD
    layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1020</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1021</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1022</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1023</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1024</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1025</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1026</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1027</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1028</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1029</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1030</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1031</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1032</refId>
      <annexAId>54</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1033</refId>
      <annexAId>54</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1034</refId>
      <annexAId>54</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Select the 2-DS1 data
    set.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1035</refId>
      <annexAId>55</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiRead</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the 2-DS1-DSI1 DSI contents. Ensure that a DSI can
    be read.</description>
      <encodedData
    type="xs:hexBinary">7F900111A10F800101810A322D4453312D44534931</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1036</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1037</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1038</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1039</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1040</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1041</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1042</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1043</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1044</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1045</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1046</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1047</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
      <refId>1048</refId>
      <annexAId>55</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1049</refId>
      <annexAId>55</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1050</refId>
      <annexAId>55</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1051</refId>
      <annexAId>55</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1052</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 2-DS1-DSI1
DSI contents. Ensure that a DSI can be read.</description>
  <encodedData
type="xs:hexBinary">7F90023FA135803349443A2031323334353B20436C6173733A20433B
20526573747269637469F6E733A204E6F6E653B20506F696E74733A203132820641504954F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>1053</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to create the 2-DS1-DSI2 DSI. This attempt shall fail
due to a lack of create permission.</description>
  <encodedData
type="xs:hexBinary">7F8F7B4FA14D800101810A322D4453312D44534932823C49443A2033
343536373B20436C6173733A20423B20526573747269637469F6E733A206D61782031322070
6572736F6E3B20506F696E74733A203132</encodedData>
</invAspect>
<invAspect>
  <refId>1054</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1055</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1056</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1057</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1058</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1059</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1060</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1061</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1062</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1063</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1064</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1065</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1066</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1067</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>1068</refId>
        <annexAId>56</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1069</refId>
        <annexAId>56</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1070</refId>
        <annexAId>56</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiCreate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Attempt to create the 2-
      DS1-DSI2 DSI. This attempt shall fail due to a
           lack of create permission.</description>
        <encodedData
      type="xs:hexBinary">7F8F7C2682244150495F53454355524954595F434F4E444954494F4E
      5F4E4F545F534154495346494544</encodedData>
      </invAspect>
      <invAspect>
        <refId>1071</refId>
        <annexAId>57</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>CALL</invocationType>
        <description>Authenticate the Management External DID. This is needed for
      the DSI write actions.</description>
        <encodedData
      type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
      6572748300</encodedData>
      </invAspect>
      <invAspect>
```

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```
  <refId>1072</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1073</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1074</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1075</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1076</refId>
```

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```
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1077</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1078</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1079</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1080</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1081</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1082</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1083</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1084</refId>
  <annexAId>57</annexAId>
```

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```
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1085</refId>
      <annexAId>57</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1086</refId>
      <annexAId>57</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1087</refId>
      <annexAId>57</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>1088</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
Management External DID. This is needed for the DSI
     write actions.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1089</refId>
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiWrite</method>
  <invocationType>CALL</invocationType>
  <description>Update the 2-DS1-DSI1 DSI. Ensure that a DSI can be
updated.</description>
  <encodedData
type="xs:hexBinary">7F8F7F45A143800101810A322D4453312D44534931823249443A2031
323334353B20436C6173733A20433B20526573747269637469F6E733A204E6F6E653B20506F
696E74733A2039</encodedData>
</invAspect>
<invAspect>
  <refId>1090</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1091</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1092</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1093</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106410495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1094</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810082 C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1095</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1096</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1097</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1098</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1099</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1100</refId>
```

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```
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1101</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1102</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369642D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1103</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1104</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
```

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```
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1105</refId>
        <annexAId>58</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1106</refId>
        <annexAId>58</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiWrite</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Update the 2-DS1-DSI1 DSI.
      Ensure that a DSI can be updated.</description>
        <encodedData type="xs:hexBinary">7F900008820641504 95F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>1107</refId>
        <annexAId>59</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didGet</method>
        <invocationType>CALL</invocationType>
        <description>Retrieve the Management external DID. Ensure that the state
      is now set to true.</description>
        <encodedData
      type="xs:hexBinary">7F90151BA119800101A102800082104D616E6745787465726E616C43
      657274</encodedData>
      </invAspect>
      <invAspect>
        <refId>1108</refId>
        <annexAId>59</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1109</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1110</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1111</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1112</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1113</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1114</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1115</refId>
  <annexAId>59</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1116</refId>
  <annexAId>59</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1117</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1118</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1119</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1120</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1121</refId>
      <annexAId>59</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1122</refId>
      <annexAId>59</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1123</refId>
      <annexAId>59</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1124</refId>
      <annexAId>59</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didGet</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the Management
external DID. Ensure that the state is now set
     to true.</description>
  <encodedData
type="xs:hexBinary">7F901630A126A02480104D616E6745787465726E616C436572748107
2881C117030003A20280008301FF840082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1125</refId>
  <annexAId>60</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 2-DS1-DSI2 DSI. This attempt shall now
succeed.</description>
  <encodedData
type="xs:hexBinary">7F8F7B4FA14D800101810A322D4453312D44534932823C49443A2033
343536373B20436C6173733A20423B20526573747269637469 6F6E733A206D61782031322070
6572736F6E3B20506F696E74733A203132</encodedData>
</invAspect>
<invAspect>
  <refId>1126</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1127</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1128</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1129</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1130</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1131</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1132</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1133</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1134</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1135</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1136</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1137</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1138</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1139</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1140</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1141</refId>
      <annexAId>60</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1142</refId>
      <annexAId>60</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 2-DS1-DSI2 DSI.
    This attempt shall now succeed.</description>
      <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1143</refId>
      <annexAId>61</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didUpdate</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to update the Alpha external DID. This action is
    expected to fail on a simple assertion protocol.</description>
      <encodedData
    type="xs:hexBinary">7F901724A1228001018111416C70686145787465726E616C43657274
    A20A80084D6F646966696564</encodedData>
    </invAspect>
    <invAspect>
      <refId>1144</refId>
      <annexAId>61</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1145</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1146</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1147</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1148</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1149</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1150</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1151</refId>
  <annexAId>61</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1152</refId>
  <annexAId>61</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1153</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1154</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1155</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1156</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1157</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1158</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1159</refId>
  <annexAId>61</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1160</refId>
  <annexAId>61</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didUpdate</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Attempt to update the
Alpha external DID. This action is expected to
      fail on a simple assertion protocol.</description>
  <encodedData
type="xs:hexBinary">7F90182782254150495F494E415050524F5052494154455F50524F54
4F434F4C5F464F525F414354494F4E</encodedData>
</invAspect>
<invAspect>
  <refId>1161</refId>
  <annexAId>62</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A0000004100020001
application as local DIDs were authenticated
      during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>1162</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1163</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1164</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1165</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1166</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1167</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1168</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1169</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1170</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1171</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1172</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1173</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1174</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1175</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1176</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1177</refId>
      <annexAId>62</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1178</refId>
      <annexAId>62</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Disconnect
    from the A00000041000020001 application as
        local DIDs were authenticated during this connection.</description>
      <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1179</refId>
      <annexAId>63</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Disconnect from the A00000041000010001
    application as local DIDs were authenticated
        during this connection.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>1180</refId>
      <annexAId>63</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1181</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1182</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1183</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1184</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1185</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1186</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1187</refId>
  <annexAId>63</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1188</refId>
  <annexAId>63</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1189</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1190</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1191</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1192</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1193</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1194</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1195</refId>
  <annexAId>63</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1196</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
```

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```
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1197</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>1198</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1199</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1200</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1201</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1202</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1203</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1204</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1205</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1206</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D22752726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A7363686568D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1207</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1208</refId>
  <annexAId>63</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the A00000041000010001 application as
      local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1209</refId>
  <annexAId>64</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Connect to the A00000041000020001 card
application. The following set of actions shall
      test the post-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>1210</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1211</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
```

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```
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>1212</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1213</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1214</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1215</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>
```

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```
          <IFDName>Blue IFD Reader SN2432A4</IFDName>

        <Slot>1</Slot>

        <Exclusive>false</Exclusive>
       </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1216</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

        <Result>IFD_OK</Result>

        <SlotHandle>00</SlotHandle>
       </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1217</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
63745265737706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1218</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1219</refId>
```

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```
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1220</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A2020202053526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1221</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1222</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1223</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1224</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1225</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1226</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1227</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1228</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1229</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1230</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1231</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1232</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1233</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1234</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1235</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1236</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1237</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1238</refId>
  <annexAId>64</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Connect to
the A00000041000020001 card application.
      The following set of actions shall test the post-
conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1239</refId>
  <annexAId>65</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Authenticate the Internal DID.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>1240</refId>
  <annexAId>65</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1241</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1242</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1243</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1244</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1245</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1246</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1247</refId>
  <annexAId>65</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1248</refId>
  <annexAId>65</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1249</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1250</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1251</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1252</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1253</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1254</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1255</refId>
      <annexAId>65</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1256</refId>
      <annexAId>65</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition:
    Authenticate the Internal DID.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1257</refId>
      <annexAId>66</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Authenticate the Management external
    DID.</description>
      <encodedData
    type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
    6572748300</encodedData>
    </invAspect>
    <invAspect>
      <refId>1258</refId>
      <annexAId>66</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1259</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1260</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1261</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1262</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1263</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1264</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1265</refId>
  <annexAId>66</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1266</refId>
  <annexAId>66</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1267</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1268</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1269</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1270</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>1271</refId>
        <annexAId>66</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1272</refId>
        <annexAId>66</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1273</refId>
        <annexAId>66</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1274</refId>
        <annexAId>66</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition:
Authenticate the Management external DID.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1275</refId>
  <annexAId>67</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the DID list
      contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>1276</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1277</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1278</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1279</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1280</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1281</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1282</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1283</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1284</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1285</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1286</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1287</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1288</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1289</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1290</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1291</refId>
      <annexAId>67</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1292</refId>
      <annexAId>67</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the A00000041000020001 card application DID
        list. Ensure that the DID list contains the expected
    DIDs.</description>
      <encodedData
    type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
    741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
    11416C70686145787465726E616C4365727482064150495F4F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1293</refId>
      <annexAId>68</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Select the 2-DS1 data set.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001008105322D445331</encodedData>
    </invAspect>
    <invAspect>
      <refId>1294</refId>
      <annexAId>68</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```


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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1295</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1296</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1297</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1298</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1299</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1300</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1301</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1302</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1303</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1304</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1305</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1306</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1307</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1308</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1309</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1310</refId>
  <annexAId>68</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Select the
2-DS1 data set.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1311</refId>
  <annexAId>69</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 2-DS1-DSI1 contents. Ensure that
the contents has been updated.</description>
  <encodedData
type="xs:hexBinary">7F900111A10F800100810A322D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>1312</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1313</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1314</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1315</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1316</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1317</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1318</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1319</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1320</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1321</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1322</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1323</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1324</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1325</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1326</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1327</refId>
      <annexAId>69</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1328</refId>
      <annexAId>69</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiRead</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the 2-DS1-DSI1 contents. Ensure that the
        contents has been updated.</description>
      <encodedData
    type="xs:hexBinary">7F90023EA134803249443A2031323334353B20436C6173733A20433B
    20526573747269637469F6E733A204E6F6E653B20506F696E74733A203982064150495F4F4B
    </encodedData>
    </invAspect>
    <invAspect>
      <refId>1329</refId>
      <annexAId>70</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiRead</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Retrieve the 2-DS1-DSI2 contents. Ensure that
    the contents is as expected.</description>
      <encodedData
    type="xs:hexBinary">7F900111A10F800100810A322D4453312D44534932</encodedData>
    </invAspect>
    <invAspect>
      <refId>1330</refId>
      <annexAId>70</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1331</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1332</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1333</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1334</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1335</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1336</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1337</refId>
  <annexAId>70</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1338</refId>
  <annexAId>70</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1339</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1340</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1341</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1342</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1343</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1344</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1345</refId>
  <annexAId>70</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1346</refId>
  <annexAId>70</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 2-DS1-DSI2 contents. Ensure that the
      contents is as expected.</description>
  <encodedData
type="xs:hexBinary">7F900248A13E803C49443A2033343536373B20436C6173733A20423B
20526573747269637469F6E733A206D617820313220706572736F6E3B20506F696E74733A20
313282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1347</refId>
  <annexAId>71</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A000000410000200001 card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>1348</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1349</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1350</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1351</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1352</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1353</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1354</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1355</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1356</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1357</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1358</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1359</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1360</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1361</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1362</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1363</refId>
      <annexAId>71</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1364</refId>
      <annexAId>71</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>disconnect</method>
      <invocationType>CALL</invocationType>
      <description></description>
      <encodedData>
        <ns2:Disconnect>

         <SlotHandle>00</SlotHandle>
        </ns2:Disconnect>
      </encodedData>
    </invAspect>
    <invAspect>
      <refId>1365</refId>
      <annexAId>71</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>write</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the IFD XML message from the TC Proxy to the TC
    Agent. The XML is the marshalled call object
        from the previous IFD Proxy call.</description>
      <encodedData
    type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E74417070536964652D5443
    2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
    74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
    446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
    6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
    653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
    dedData>
    </invAspect>
    <invAspect>
      <refId>1366</refId>
      <annexAId>71</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1367</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1368</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A2020202203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1369</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1370</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
```

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```
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1371</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A33543732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1372</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1373</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1374</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1375</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1376</refId>
  <annexAId>71</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the A00000041000020001 card
     application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1377</refId>
  <annexAId>72</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>1378</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1379</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D32818182 3C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>1380</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1381</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1382</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1383</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1384</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1385</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370 6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563693A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1386</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1387</refId>
```

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```
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1388</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E733A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D612E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1389</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1390</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32821C436C69656E7441707053696465 2D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>1391</refId>
```

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```
    <annexAId>72</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>close</method>
    <invocationType>RETURN</invocationType>
    <description>Return of close the TC from the client application
  host.</description>
    <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>1392</refId>
    <annexAId>72</annexAId>
    <layer>SAL</layer>
    <layerName>SAL</layerName>
    <method>terminate</method>
    <invocationType>RETURN</invocationType>
    <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
  This shall automatically invoke
       ReleaseContext on the IFDProxy.</description>
    <encodedData type="xs:hexBinary">7F8F5408820641504955F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>1393</refId>
    <annexAId>0</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>close</method>
    <invocationType>CALL</invocationType>
    <description>Close the trusted channel on the smartcard host
  side.</description>
    <encodedData
  type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
  657373696F6E49442D31810082 536D617274636172645369646 52D54432D53657373696F6E
  49442D31</encodedData>
  </invAspect>
  <invAspect>
    <refId>1394</refId>
    <annexAId>0</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>close</method>
    <invocationType>RETURN</invocationType>
    <description>Close the trusted channel on the smartcard host
  side.</description>
    <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
  </invAspect>
</invAspectList>
```

C.7 Data manipulation - global authentication

This appendix provides the test data and expected results, as described in Annex A.1.7, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.7.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
  <invAspect>
    <refId>1</refId>
```

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```
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the trusted channel on the smartcard host side. Next the
smartcard host server will invoke the TC
      read method and wait for requests. The order of this call and the read
call in relation to the client application
      side is undefined. The channel handle returned by open on the smartcard
side can be different to that returned on the
      client application side.</description>
  <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
</invAspect>
<invAspect>
  <refId>2</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Open the trusted channel on the smartcard host side. Next the
smartcard host server will invoke the TC
      read method and wait for requests. The order of this call and the read
call in relation to the client application
      side is undefined. The channel handle returned by open on the smartcard
side can be different to that returned on the
      client application side.</description>
  <encodedData
type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the A00000041000010001 card
application. The following set of actions shall
      test the A00000041000010001 card application pre-
conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F24638A159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874747 03A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:EstablishContext>

       <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
       </ChannelHandle>
      </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E7465787420786D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A20202020202020203C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A20202020202020203C5365
7373696F6E4964656E7469666965723E436C69656E74417070536964652D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
```

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```
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A20202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
```

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```
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370 6F6E7365
20786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370 6F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
7465787452657370 6F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>
```

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```
      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053 4E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736 2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578748616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265164657220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

         <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6563745265737065F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C52657375726E743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617746361726 42D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465
2D54432D53657373696F6E49442D328100821C536D6172746361726453696465
2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>46</refId>
      <annexAId>2</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>47</refId>
      <annexAId>2</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>48</refId>
      <annexAId>2</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Connect to
    the A00000041000010001 card application. The
        following set of actions shall test the A00000041000010001 card
    application pre-conditions.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>49</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
     with management permissions to view all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369644652D54432D53
657373696F6E49442D328100821C536D617274636172645369644652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369644652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369644652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>66</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the InternalCert DID. This, combined with
        MangExternalCert, shall provide us with management permissions to view
    all of the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>67</refId>
      <annexAId>4</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Authenticate the MangExternalCert DID. This
    shall provide us with management permissions
        to view all of the smart card, except the AccessLog.</description>
      <encodedData
    type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
    6572748300</encodedData>
    </invAspect>
    <invAspect>
      <refId>68</refId>
      <annexAId>4</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>69</refId>
      <annexAId>4</annexAId>
      <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>82</refId>
        <annexAId>4</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>83</refId>
        <annexAId>4</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>84</refId>
        <annexAId>4</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition:
      Authenticate the MangExternalCert DID. This shall
        provide us with management permissions to view all of the smart card,
      except the AccessLog.</description>
        <encodedData
      type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>85</refId>
        <annexAId>5</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800100A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726420686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>Transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>102</refId>
      <annexAId>5</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the CHPIN DID. This shall provide us with
        permission to view the AccessLog.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>103</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the A00000041000020001 card
    application access rules. Ensure that the ACL is as
        expected.</description>
      <encodedData
    type="xs:hexBinary">7F901D24A12280010081104341524 42D4150504C49434154494F4EA2
    0B8209A00000041000010001</encodedData>
    </invAspect>
    <invAspect>
      <refId>104</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>105</refId>
      <annexAId>6</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465
2D54432D536573736965649442D328100821C536D6172746361726453696465
2D54432D536573736965649442D32</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>6</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
```

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```
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>130</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000020001 card application access
         rules. Ensure that the ACL is as expected.</description>
      <encodedData
    type="xs:hexBinary">7F901E820536A182052A0820526301F800D417574686F72697A6174
    696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
    6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
    6F6EA10F820D45786563757465416374696F6EA203820100302B800A436F6E6E656374696F6E
    A11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172
    644170706C69636174696F6E A11582184361726441707 06C69636174696F6E4C697374A20381
    01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
    636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C
    69636174696F6E456E645365737 3696F6EA2038101FF302F800F436172644170706C69636174
    696F6EA11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43
    6172644170706C69636174696F6EA11782154361726441707 06C69636174696F6E44656C6574
    65A2038101FF303080 0A436F6E6E656374696F6EA11D811B436172644170706C69636174696F
    6E5374617274536573 3696F6EA2038101FF3034800F436172644170706C69636174696F6EA1
    1C821A436172644170706C69636174696F6E536572766963654C697374A2038201003034800F
    436172644170706C69636174696F6EA11C821A436172644170706C69636174696F6E53657276
    6963654C6F6164A2038201003036800F436172644170706C69636174696F6EA11E821C436172
    644170706C69636174696F6E536572766963654372656174 65A2038201003036800F43617264
    4170706C69636174696F6EA11E821C436172644170706C69636174696F6E5365727669636544
    656C657465A2038201003038800F436172644170706C69636174696F6EA120821E4361726441
    70706C69636174696F6E536572766963654465736372696265A2038201003052800 94E616D65
    6444617461A10F830D446174615365744372656174 65A234A432A015800C496E7465726E616C
    43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
    305280094E616D656444617461A10F830D446174615365744465 6C657465A234A432A015800C
    496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
    74A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
    A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
    65726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E7469
    7479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A10280
    008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966
    666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C
    496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
    74A10280008201FF30819980094E616D656444617461A10D830B4461746153657 44C697374A2
    7DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1
    0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
```

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```
6C706861457874657 26E616C43657274A1028000820100A0198010426574614578746572 6E61
6C43657274A10280008201008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application DID list. Ensure that the DID list
     contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>147</refId>
      <annexAId>7</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>148</refId>
      <annexAId>7</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000010001 card application DID
        list. Ensure that the DID list contains the expected
    DIDs.</description>
      <encodedData
    type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
    741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
    11416C70686145787465726E616C43657274820641504950495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>149</refId>
      <annexAId>8</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the A00000041000010001 card
    application DataSet list. Ensure that the DataSet
        list contains the expected DataSets.</description>
      <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>150</refId>
      <annexAId>8</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```


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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000010001 card application
      DataSet list. Ensure that the DataSet list contains the expected
DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>183</refId>
      <annexAId>9</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>184</refId>
      <annexAId>9</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Select the 1-DS1
    DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>185</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the 1-DS1 DSI list. Ensure that the DSI list
    contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>186</refId>
      <annexAId>10</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
```

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```
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
```

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```
      <annexAId>10</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>200</refId>
      <annexAId>10</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>201</refId>
      <annexAId>10</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>202</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the 1-DS1 DSI
    list. Ensure that the DSI list contains the
          expected DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B
    </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>215</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D536573736696E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>11</annexAId>
```

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```
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>220</refId>
      <annexAId>11</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    1-DS2 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>221</refId>
      <annexAId>12</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the 1-DS2 DSI list. Ensure that the DSI list
    contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>222</refId>
      <annexAId>12</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>223</refId>
      <annexAId>12</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465
2D54432D53657373696F6E49442D328100821C536D6172746361726453696465
2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>236</refId>
      <annexAId>12</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>237</refId>
      <annexAId>12</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>238</refId>
      <annexAId>12</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the 1-DS2 DSI
    list. Ensure that the DSI list contains the
        expected DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
    44534932820641504 95F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>239</refId>
      <annexAId>13</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS3 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445333</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>256</refId>
       <annexAId>13</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetSelect</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Pre-condition: Select the
     1-DS3 DataSet.</description>
       <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>257</refId>
       <annexAId>14</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dsiList</method>
       <invocationType>CALL</invocationType>
       <description>Retrieve the 1-DS3 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
       <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
     </invAspect>
     <invAspect>
       <refId>258</refId>
       <annexAId>14</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>259</refId>
       <annexAId>14</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
     interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D32810821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>14</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>268</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
```

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```
      <annexAId>14</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>273</refId>
      <annexAId>14</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>274</refId>
      <annexAId>14</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the 1-DS3 DSI
    list. Ensure that the DSI list contains the
         expected DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
    44534932 1A0A312D4453332D4453493382064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>275</refId>
      <annexAId>15</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Select the AccessLog DataSet.</description>
      <encodedData
    type="xs:hexBinary">7F8F7510A10E800100810941636365737 34C6F67</encodedData>
    </invAspect>
    <invAspect>
      <refId>276</refId>
      <annexAId>15</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>289</refId>
      <annexAId>15</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>290</refId>
      <annexAId>15</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>291</refId>
      <annexAId>15</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>292</refId>
      <annexAId>15</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the expected DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>309</refId>
      <annexAId>16</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>310</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the AccessLog DSI list. Ensure that the DSI
        list contains the expected DSI.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
    encodedData>
    </invAspect>
    <invAspect>
      <refId>311</refId>
      <annexAId>17</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Connect to the A00000041000020001 card
    application. The following set of actions shall
        test the A00000041000020001 card application pre-
    conditions.</description>
      <encodedData
    type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
    2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
    8509A00000041000020001810100</encodedData>
    </invAspect>
    <invAspect>
      <refId>312</refId>
      <annexAId>17</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
```


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```
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>328</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the A00000041000020001 card application. The
      following set of actions shall test the A00000041000020001 card
application pre-conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the InternalCert DID. This,
combined with MangExternalCert, shall provide us
      with management permissions to view all of the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>345</refId>
      <annexAId>18</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>346</refId>
      <annexAId>18</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the InternalCert DID. This, combined with
         MangExternalCert, shall provide us with management permissions to view
    all of the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>347</refId>
      <annexAId>19</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Authenticate the MangExternalCert DID. This
    shall provide us with management permissions
         to view all of the smart card, except the AccessLog.</description>
      <encodedData
    type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
    6572748300</encodedData>
    </invAspect>
    <invAspect>
      <refId>348</refId>
      <annexAId>19</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>361</refId>
      <annexAId>19</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>362</refId>
      <annexAId>19</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>363</refId>
      <annexAId>19</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>364</refId>
      <annexAId>19</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition:
Authenticate the MangExternalCert DID. This shall
     provide us with management permissions to view all of the smart card,
except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
us with permission to view the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800101A102800082054348504945300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>381</refId>
      <annexAId>20</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>382</refId>
      <annexAId>20</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the CHPIN DID. This shall provide us with
         permission to view the AccessLog.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>383</refId>
      <annexAId>21</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the A00000041000010001 card
    application access rules. Ensure that the ACL
         contains the expected access rules.</description>
      <encodedData
    type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
    0B8209A00000041000020001</encodedData>
    </invAspect>
    <invAspect>
      <refId>384</refId>
      <annexAId>21</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>21</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32819687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>404</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>405</refId>
      <annexAId>21</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>406</refId>
      <annexAId>21</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000010001 card application access
         rules. Ensure that the ACL contains the expected access
    rules.</description>
      <encodedData
    type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
    696F6EA1098607414434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
    6E74697479A1098607 4449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
    16436172644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
    706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
    2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
    6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
    74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43
    6172644170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D
    656444617461A10F830D4461746153657443726561746 5A234A432A015800C496E7465726E61
    6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
    FF305280094E616D656444617461A10F830D4461746153657444656C657465A234A432A01580
    0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
    7274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F646966
    79A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578
    7465726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74
    697479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A102
    80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469
    66666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A01580
    0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
    7274A10280008201FF307E80094E616D656444617461A10D830B446174615365744C697374A2
```

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```
62A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657265726E616C43657274A1028000820100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the DID list
      contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>423</refId>
      <annexAId>22</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>424</refId>
      <annexAId>22</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000020001 card application DID
        list. Ensure that the DID list contains the expected
    DIDs.</description>
      <encodedData
    type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
    741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
    11416C706861457874657265726E616C43657274820641504950495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>425</refId>
      <annexAId>23</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the A00000041000020001 card
    application DataSet list. Ensure that the DataSet
        list contains the expected DataSets.</description>
      <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>426</refId>
      <annexAId>23</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>439</refId>
        <annexAId>23</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>440</refId>
        <annexAId>23</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>441</refId>
        <annexAId>23</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>442</refId>
        <annexAId>23</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetList</method>
        <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the A00000041000020001 card application
     DataSet list. Ensure that the DataSet list contains the expected
DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
73734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS1 data set.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>459</refId>
      <annexAId>24</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>460</refId>
      <annexAId>24</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    2-DS1 data set.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>461</refId>
      <annexAId>25</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>462</refId>
      <annexAId>25</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
```

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```
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
```

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```
      <annexAId>25</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>476</refId>
      <annexAId>25</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>477</refId>
      <annexAId>25</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>478</refId>
      <annexAId>25</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the 2-DS1 DSI list. Ensure that the DSI list
          contains the expected DSIs.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D
    44534932820641504 95F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445332</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>491</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>26</annexAId>
```

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```
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>496</refId>
      <annexAId>26</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    2-DS2 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>497</refId>
      <annexAId>27</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>498</refId>
      <annexAId>27</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>499</refId>
      <annexAId>27</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
6573736F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>512</refId>
        <annexAId>27</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>513</refId>
        <annexAId>27</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>514</refId>
        <annexAId>27</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiList</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
      the 2-DS2 DSI list. Ensure that the DSI list
        contains the expected DSIs.</description>
        <encodedData
      type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B
      </encodedData>
      </invAspect>
      <invAspect>
        <refId>515</refId>
        <annexAId>28</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetSelect</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>532</refId>
       <annexAId>28</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetSelect</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Pre-condition: Select the
     AccessLog DataSet.</description>
       <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>533</refId>
       <annexAId>29</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dsiList</method>
       <invocationType>CALL</invocationType>
       <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
     the DSI list contains the expected DSI.</description>
       <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
     </invAspect>
     <invAspect>
       <refId>534</refId>
       <annexAId>29</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>535</refId>
       <annexAId>29</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
     interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>29</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>543</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>544</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>546</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
```

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```
      <annexAId>29</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>549</refId>
      <annexAId>29</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>550</refId>
      <annexAId>29</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the AccessLog DSI list. Ensure that the DSI
         list contains the expected DSI.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
    encodedData>
    </invAspect>
    <invAspect>
      <refId>551</refId>
      <annexAId>30</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Disconnect from the A00000041000020001 card
    application as local DIDs were authenticated
         during this connection.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>552</refId>
      <annexAId>30</annexAId>
      <layer>GCI</layer>
```

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```
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>563</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>565</refId>
      <annexAId>30</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>566</refId>
      <annexAId>30</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>567</refId>
      <annexAId>30</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>568</refId>
      <annexAId>30</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000020001 card application
      as local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the A00000041000010001 card
application as local DIDs were authenticated
      during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>584</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>585</refId>
      <annexAId>31</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>586</refId>
      <annexAId>31</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>disconnect</method>
      <invocationType>CALL</invocationType>
      <description></description>
      <encodedData>
         <ns2:Disconnect>

          <SlotHandle>00</SlotHandle>
         </ns2:Disconnect>
      </encodedData>
    </invAspect>
    <invAspect>
      <refId>587</refId>
      <annexAId>31</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>write</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the IFD XML message from the TC Proxy to the TC
    Agent. The XML is the marshalled call object
         from the previous IFD Proxy call.</description>
      <encodedData
    type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
    2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
    74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
    446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
    6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
    653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
    dedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>588</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A2020202020 C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:DisconnectResponse>

       <Result>IFD_OK</Result>
      </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000010001 card application
      as local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>599</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000020001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
      CardApplicationConnect call object.</description>
  <encodedData>
```

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```
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D3281196874747703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E733D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73333A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>603</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C7565204946442052656164657220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>32</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>611</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>616</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>627</refId>
      <annexAId>32</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>628</refId>
      <annexAId>32</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Connect to the
    A00000041000020001 application.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>629</refId>
      <annexAId>33</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Authenticate the InternalCert DID.</description>
      <encodedData
    type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
    00</encodedData>
    </invAspect>
    <invAspect>
      <refId>630</refId>
      <annexAId>33</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>635</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>638</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>639</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>644</refId>
      <annexAId>33</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>645</refId>
      <annexAId>33</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>646</refId>
      <annexAId>33</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate the
    InternalCert DID.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>647</refId>
      <annexAId>34</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate as the card holder (CHPIN).</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800100A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
```

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```
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>656</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>657</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>658</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>34</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>660</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369644652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>664</refId>
      <annexAId>34</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate as the card
    holder (CHPIN).</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>665</refId>
      <annexAId>35</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Select the Access Log data set.</description>
      <encodedData
    type="xs:hexBinary">7F8F7510A10E800100810941636365737 34C6F67</encodedData>
    </invAspect>
    <invAspect>
      <refId>666</refId>
      <annexAId>35</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>667</refId>
      <annexAId>35</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the command APDU from the GCI layer to the IFD
    layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>670</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>680</refId>
      <annexAId>35</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>681</refId>
      <annexAId>35</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>682</refId>
      <annexAId>35</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Select the Access Log data
    set.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>683</refId>
      <annexAId>36</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiRead</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to read the Access Log DSI. This attempt shall fail
    as the global AccessLog DID has not yet been
        authenticated.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F900110A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>684</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>686</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>689</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>691</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
```

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```
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
      </invAspect>
      <invAspect>
        <refId>696</refId>
        <annexAId>36</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>CALL</invocationType>
        <description>Wait for the response, from the TC Agent, to the previous
      write.</description>
        <encodedData
      type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>697</refId>
        <annexAId>36</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>698</refId>
        <annexAId>36</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>699</refId>
        <annexAId>36</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>700</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiRead</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to read the Access
Log DSI. This attempt shall fail as the
     global AccessLog DID has not yet been authenticated.</description>
  <encodedData
type="xs:hexBinary">7F90022682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>701</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the Alpha card application.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>702</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>703</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>704</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>705</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>709</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>715</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>716</refId>
      <annexAId>37</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>717</refId>
      <annexAId>37</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>718</refId>
      <annexAId>37</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Connect to the Alpha card
    application.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>719</refId>
      <annexAId>38</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to authenticate the Access Log DID. Fail as it first
    required authentication of the global
         InternalCert and CHPIN DIDs.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901B16A114800101A10281008209416363657373734C6F678300</en
codedData>
</invAspect>
<invAspect>
  <refId>720</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>721</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>722</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>723</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>724</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>725</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>727</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>731</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>733</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>734</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>735</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>736</refId>
       <annexAId>38</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didAuthenticate</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Attempt to authenticate
     the Access Log DID. Fail as it first required
          authentication of the global InternalCert and CHPIN DIDs.</description>
       <encodedData
     type="xs:hexBinary">7F901C2682244150495F534543555249545F434F4E444954494F4E
     5F4E4F545F534154495346494544</encodedData>
     </invAspect>
     <invAspect>
       <refId>737</refId>
       <annexAId>39</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didAuthenticate</method>
       <invocationType>CALL</invocationType>
       <description>Attempt to authenticate the local Internal DID. This request
     shall fail as the request attempts to
          authenticate in the local scope. DIDs in the Alpha card application can
     only be authenticated in the global scope.</description>
       <encodedData
     type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
     00</encodedData>
     </invAspect>
     <invAspect>
       <refId>738</refId>
       <annexAId>39</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>739</refId>
       <annexAId>39</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>740</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>741</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
6573736F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>745</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>746</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>747</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>748</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>751</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>752</refId>
        <annexAId>39</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>753</refId>
        <annexAId>39</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>754</refId>
        <annexAId>39</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Attempt to authenticate
      the local Internal DID. This request shall
        fail as the request attempts to authenticate in the local scope. DIDs
      in the Alpha card application can only be
        authenticated in the global scope.</description>
        <encodedData
      type="xs:hexBinary">7F901C1982174150495F494E434F52524543545F504152414D455445
      52</encodedData>
      </invAspect>
      <invAspect>
        <refId>755</refId>
        <annexAId>40</annexAId>
        <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the global Internal DID. This request shall now
succeed as the scope is global.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028100820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>756</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>757</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>758</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>759</refId>
```

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```
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>760</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>761</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>763</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>767</refId>
  <annexAId>40</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>770</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>771</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>772</refId>
      <annexAId>40</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate the global
    Internal DID. This request shall now succeed
        as the scope is global.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>773</refId>
      <annexAId>41</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Authenticate as the global card holder (CHPIN)
    DID.</description>
      <encodedData
    type="xs:hexBinary">7F901B12A110800101A10281008205434850494E8300</encodedDat
    a>
    </invAspect>
    <invAspect>
      <refId>774</refId>
      <annexAId>41</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>775</refId>
      <annexAId>41</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>776</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>777</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>778</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>779</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>781</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>787</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>788</refId>
      <annexAId>41</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>789</refId>
      <annexAId>41</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>790</refId>
      <annexAId>41</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate as the global
    card holder (CHPIN) DID.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>791</refId>
      <annexAId>42</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Authenticate the Access Log DID. This action shall now
succeed.</description>
  <encodedData
type="xs:hexBinary">7F901B16A114800101A10281008209416363657373 4C6F678300</en
codedData>
</invAspect>
<invAspect>
  <refId>792</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>793</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>794</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>795</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>798</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>799</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>800</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>802</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>803</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>804</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>805</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>806</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>807</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>808</refId>
       <annexAId>42</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didAuthenticate</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Authenticate the Access
     Log DID. This action shall now succeed.</description>
       <encodedData
     type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>809</refId>
       <annexAId>43</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>cardApplicationConnect</method>
       <invocationType>CALL</invocationType>
       <description>Connect again to the A00000041000020001
     application.</description>
       <encodedData
     type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
     2D686F73742E6E65748318426C7565204946442052656164657220534E3234333241348401018509A00000041000020001810100</encodedData>
     </invAspect>
     <invAspect>
       <refId>810</refId>
       <annexAId>43</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>811</refId>
       <annexAId>43</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>812</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>813</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>814</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>815</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>816</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>817</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>818</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>819</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>820</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>821</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>822</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>823</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>824</refId>
      <annexAId>43</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>825</refId>
      <annexAId>43</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>826</refId>
      <annexAId>43</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Connect again to the
    A00000041000020001 application.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010282064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>827</refId>
      <annexAId>44</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Authenticate the InternalCert. Ensure that the same local DID
    in the same card application has different
```

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```
      states for different connections. The disconnect below shall test
this.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800102A1028000820C496E7465726E616C4365727483
00</encodedData>
</invAspect>
<invAspect>
  <refId>828</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>829</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>830</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>831</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>832</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>833</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>834</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>835</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>836</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>837</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>838</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>839</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>840</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>841</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>842</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>843</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>844</refId>
       <annexAId>44</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didAuthenticate</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Authenticate the
     InternalCert. Ensure that the same local DID in the
          same card application has different states for different connections.
     The disconnect below shall test this.</description>
       <encodedData
     type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>845</refId>
       <annexAId>45</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didAuthenticate</method>
       <invocationType>CALL</invocationType>
       <description>Authenticate as the card holder (CHPIN).</description>
       <encodedData
     type="xs:hexBinary">7F901B12A110800102A102800082054348504 94E8300</encodedDat
     a>
     </invAspect>
     <invAspect>
       <refId>846</refId>
       <annexAId>45</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>847</refId>
       <annexAId>45</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>848</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>849</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>850</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>851</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>852</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>853</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>854</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>855</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>856</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>857</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>858</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>859</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>860</refId>
      <annexAId>45</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>861</refId>
      <annexAId>45</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>862</refId>
      <annexAId>45</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate as the card
    holder (CHPIN).</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>863</refId>
      <annexAId>46</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Select the Access Log data set.</description>
      <encodedData
    type="xs:hexBinary">7F8F7510A10E800102810941636365737 34C6F67</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>864</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>865</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>866</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>867</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>868</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>869</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>870</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>871</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>872</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>873</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>874</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>875</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
      <refId>876</refId>
      <annexAId>46</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>877</refId>
      <annexAId>46</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>878</refId>
      <annexAId>46</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>879</refId>
      <annexAId>46</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>880</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Select the Access Log data
set.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>881</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Read the Access Log DSI. The authentication of the global
AccessLog DID in another connection shall
      enable read access. Ensure that new connections after a global DID
authentication can see the global DID state</description>
  <encodedData
type="xs:hexBinary">7F900110A10E80010281094163636573734C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>882</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>883</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>884</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>885</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>886</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>887</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>888</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>889</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>890</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>891</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>892</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>893</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106410495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>894</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646 52D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>895</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>896</refId>
  <annexAId>47</annexAId>
```

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```
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>897</refId>
      <annexAId>47</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>898</refId>
      <annexAId>47</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiRead</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Read the Access Log DSI.
    The authentication of the global AccessLog
        DID in another connection shall enable read access. Ensure that new
    connections after a global DID authentication can
        see the global DID state.</description>
      <encodedData
    type="xs:hexBinary">7F90020CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>899</refId>
      <annexAId>48</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Disconnect from the A00000041000020001 card application.
    Ensure that this disconnect only sets the DID
        states to false for this connection. Also see the AccessLog DSI read
    below.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800102</encodedData>
    </invAspect>
    <invAspect>
      <refId>900</refId>
      <annexAId>48</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>901</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>902</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>903</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>904</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>905</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>906</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>907</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>908</refId>
  <annexAId>48</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>909</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>910</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>911</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>912</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>913</refId>
      <annexAId>48</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>914</refId>
      <annexAId>48</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>915</refId>
      <annexAId>48</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>916</refId>
```

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```
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the
A00000041000020001 card application. Ensure that
     this disconnect only sets the DID states to false for this connection.
Also see the AccessLog DSI read below.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>917</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Read the Access Log DSI on the Card Holder connection. The
authentication of the global AccessLog DID in
     another connection shall enable read access. Ensure that connections
before a global DID authentication can see the
     global DID state. Ensure that, when there are two connections to the
same card application, that a disconnect to one
     connection does not affect the DID states of the other
connection.</description>
  <encodedData
type="xs:hexBinary">7F900110A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>918</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>919</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>920</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>921</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>922</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>923</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>924</refId>
  <annexAId>49</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>925</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>926</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>927</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>928</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>929</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>930</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>931</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>932</refId>
```

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```
      <annexAId>49</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>933</refId>
      <annexAId>49</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>934</refId>
      <annexAId>49</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiRead</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Read the Access Log DSI on
    the Card Holder connection. The
         authentication of the global AccessLog DID in another connection shall
    enable read access. Ensure that connections
         before a global DID authentication can see the global DID state. Ensure
    that, when there are two connections to the
         same card application, that a disconnect to one connection does not
    affect the DID states of the other connection.</description>
      <encodedData
    type="xs:hexBinary">7F90020CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>935</refId>
      <annexAId>50</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Disconnect from the Alpha card application. This shall set
    the AccessLog log state to false.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>936</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>937</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>938</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>939</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>940</refId>
```

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```
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>941</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>942</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>943</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>944</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>945</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>946</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>947</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>948</refId>
  <annexAId>50</annexAId>
```

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```
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>949</refId>
      <annexAId>50</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>950</refId>
      <annexAId>50</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>951</refId>
      <annexAId>50</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>952</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the Alpha
card application. This shall set the
     AccessLog log state to false.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>953</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to read the Access Log DSI. This attempt shall fail
as the global AccessLog DID is no longer
     authenticated. Ensure that the state of global DIDs are set to false
when the connection in which they were
     authenticate are disconnected.</description>
  <encodedData
type="xs:hexBinary">7F900110A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>954</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>955</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>956</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>957</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106410495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>958</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D32810082C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>959</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>960</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>961</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>962</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>963</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>964</refId>
```

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```
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>965</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>966</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369642D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>967</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>968</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
```

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```
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>969</refId>
        <annexAId>51</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>970</refId>
        <annexAId>51</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiRead</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Attempt to read the Access
      Log DSI. This attempt shall fail as the
            global AccessLog DID is no longer authenticated. Ensure that the state
      of global DIDs are set to false when the
            connection in which they were authenticate are
      disconnected.</description>
        <encodedData
      type="xs:hexBinary">7F90022682244150495F53454355524954595F434F4E444954494F4E
      5F4E4F545F534154495346494544</encodedData>
      </invAspect>
      <invAspect>
        <refId>971</refId>
        <annexAId>52</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationDisconnect</method>
        <invocationType>CALL</invocationType>
        <description>Disconnect from the A00000041000010001 card application as
      local DIDs were authenticated during this
            connection.</description>
        <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
      </invAspect>
      <invAspect>
        <refId>972</refId>
        <annexAId>52</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>973</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>974</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>975</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>976</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>977</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>978</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>979</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>980</refId>
  <annexAId>52</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>981</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>982</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>983</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>984</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>985</refId>
      <annexAId>52</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>986</refId>
      <annexAId>52</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>987</refId>
      <annexAId>52</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>988</refId>
```

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```
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:Disconnect>

       <SlotHandle>00</SlotHandle>
      </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>989</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>990</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>991</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>992</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>993</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>994</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>995</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>996</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>997</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>998</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>999</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1000</refId>
  <annexAId>52</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the
A00000041000010001 card application as local DIDs
     were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1001</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Connect to the Alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F5749A147A042A11B80196874747703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465220534E323433324134840101
8506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>1002</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1003</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
```

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```
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E746578744861E646C653E0A202020203C4946444E616D653E42
6C756520494644205265616465722053E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>1004</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1005</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1006</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1007</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
```

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```
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1008</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
      previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

       <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1009</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1010</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1011</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1012</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F744861E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1013</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1014</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1015</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1016</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1017</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1018</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1019</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1020</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1021</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1022</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1023</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1024</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1025</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1026</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1027</refId>
      <annexAId>53</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1028</refId>
      <annexAId>53</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1029</refId>
      <annexAId>53</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1030</refId>
      <annexAId>53</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Connect to
the Alpha card application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1031</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didGet</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the AccessLog DID. Ensure the DID
state is false.</description>
  <encodedData
type="xs:hexBinary">7F901514A112800100A10281008209416363673734C6F67</encode
dData>
</invAspect>
<invAspect>
  <refId>1032</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1033</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1034</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1035</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1036</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1037</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1038</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1039</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1040</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1041</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1042</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1043</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1044</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1045</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1046</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1047</refId>
      <annexAId>54</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1048</refId>
      <annexAId>54</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didGet</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Retrieve
    the AccessLog DID. Ensure the DID state is
        false.</description>
      <encodedData
    type="xs:hexBinary">7F901629A11FA01D80094163636573734C6F6781072881C117030003
    A202810083010084008206A150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1049</refId>
      <annexAId>55</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Disconnect from the Alpha card
    application.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>1050</refId>
      <annexAId>55</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1051</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1052</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1053</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1054</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1055</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1056</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1057</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1058</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1059</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1060</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1061</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1062</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1063</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1064</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1065</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1066</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
```

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```
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1067</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>1068</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1069</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1070</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1071</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1072</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1073</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1074</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1075</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1076</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA18188081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A7363686563D61223E0A202020203C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E656374526573706F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1077</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1078</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1079</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>1080</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1081</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>1082</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1083</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1084</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E74657448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1085</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1086</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1087</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646 52D5443
2D53657373696F6E49442D328100821C536D617274636172645369646 52D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657373 06F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657373 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1088</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1089</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696 4652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1090</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F526573756C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
```


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```
<invAspect>
  <refId>1091</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1092</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32821C436C69656E7441707053696465 2D54432D53657373696F6E4944
2D32</encodedData>
</invAspect>
<invAspect>
  <refId>1093</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description>Return of close the TC from the client application
host.</description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1094</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>terminate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
This shall automatically invoke
     ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1095</refId>
  <annexAId>0</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description>Close the trusted channel on the smartcard host
side.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
    657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
    49442D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>1096</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description>Close the trusted channel on the smartcard host
    side.</description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

C.8 Application management - data structure destruction

This appendix provides the test data and expected results, as described in Annex A.1.8, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.8.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>CALL</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
        side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
        client application side.</description>
      <encodedData type="xs:hexBinary">7F9F2306A10480008100</encodedData>
    </invAspect>
    <invAspect>
      <refId>2</refId>
      <annexAId>0</annexAId>
      <layer>TC</layer>
      <layerName>TC Agent</layerName>
      <method>open</method>
      <invocationType>RETURN</invocationType>
      <description>Open the trusted channel on the smartcard host side. Next the
    smartcard host server will invoke the TC
        read method and wait for requests. The order of this call and the read
    call in relation to the client application
        side is undefined. The channel handle returned by open on the smartcard
    side can be different to that returned on the
        client application side.</description>
      <encodedData
    type="xs:hexBinary">7F9F244AA140A03E801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
49442D3182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>3</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>CALL</invocationType>
  <description>Initialise the SAL Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>1</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>initialize</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Initialise the SAL
Proxy.</description>
  <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the A00000041000010001 card
application. The following set of actions shall
     test the A00000041000010001 card application pre-
conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F5A4CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722053 4E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open the TC from the client application host.</description>
  <encodedData
type="xs:hexBinary">7F9F231FA11D8019687474703A2F2F736D617274636172642D686F73
742E6E65748100</encodedData>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of open the TC from the client application
host.</description>
  <encodedData
type="xs:hexBinary">7F9F2463A159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D3282064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

            <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

            <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182018DA1820189A057801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E7441707053696465 2D54432D53657373696F6E49442D328182012C3C
6E73323A45737461626C697368436F6E746578742078D6C6E733A6E73323D2275726E3A6973
6F3A7374643A69736F2D6965633A32343732373A746563683A736368656D61223E0A20202020
3C4368616E6E656C48616E646C653E0A2020202020202020 3C50726F746F636F6C5465726D69
6E6174696F6E506F696E743E687474703A2F2F736D617274636172642D686F73742E6E65743C
2F50726F746F636F6C5465726D696E6174696F6E506F696E743E0A2020202020202020 3C5365
7373696F6E4964656E7469666965723E436C69656E7441707053696465 2D54432D5365737369
6F6E49442D323C2F53657373696F6E4964656E7469666965723E0A202020203C2F4368616E6E
656C48616E646C653E0A3C2F6E73323A45737461626C697368436F6E746578743E</encodedD
ata>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82013CA18201308082012C3C6E73323A45737461626C697368
436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D696563
3A32343732373A746563683A736368656D61223E0A202020203C4368616E6E656C48616E646C
653E0A20202020202020203C50726F746F636F6C5465726D696E6174696F6E506F696E743E68
7474703A2F2F736D617274636172642D686F73742E6E65743C2F50726F746F636F6C5465726D
696E6174696F6E506F696E743E0A2020202020202020203C53657373696F6E4964656E74696669
65723E436C69656E74417070536964652D54432D53657373696F6E49442D323C2F5365737369
6F6E4964656E7469666965723E0A202020203C2F4368616E6E656C48616E646C653E0A3C2F6E
73323A45737461626C697368436F6E746578743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContext>

      <ChannelHandle>

           <ProtocolTerminationPoint>http://smartcard-
host.net</ProtocolTerminationPoint>

           <SessionIdentifier>ClientAppSide-TC-SessionID-
2</SessionIdentifier>
      </ChannelHandle>
     </ns2:EstablishContext>
  </encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181F8A181F5A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181B23C6E73323A45737461626C697368436F6E7465787452657370 6F6E7365
20786D6C6E733A6E73323D22757 6E3A69736F3A7374643A69736F2D6965633A32343732373A
746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52657375
6C743E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E7465787448616E64
6C653E0A3C2F6E73323A45737461626C697368436F6E7465787452657370 6F6E73653E</enco
dedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696 4652D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81C0A181B58081B23C6E73323A45737461626C697368436F6E
74657874526573706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A6973
6F2D6965633A32343732373A746563683A736368656D61223E0A2020202033C526573756C743E
4946445F4F4B3C2F526573756C743E0A202020203C436F6E74657448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A45737461626C697368436F6E74657874
526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>establishContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:EstablishContextResponse>

      <Result>IFD_OK</Result>

      <ContextHandle>00</ContextHandle>
     </ns2:EstablishContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
```

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```
  </encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C756520496446420526561646572205 34E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C2F436F6E746578
```

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```
7448616E646C653E0A202020203C4946444E616D653E426C756520494644205265616465722 0
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646 52D5443
```

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```
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
```

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```
      <ns2:ConnectResponse>

       <Result>IFD_OK</Result>

       <SlotHandle>00</SlotHandle>
      </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>Transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>2</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726442D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>2</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>48</refId>
      <annexAId>2</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Connect to
    the A00000041000010001 card application. The
         following set of actions shall test the A00000041000010001 card
    application pre-conditions.</description>
      <encodedData
    type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>49</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Authenticate the InternalCert DID. This,
    combined with MangExternalCert, shall provide us
         with management permissions to view all of the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901B19A117800100A1028000820C496E7465726E616C4365727483
    00</encodedData>
    </invAspect>
    <invAspect>
      <refId>50</refId>
      <annexAId>3</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>51</refId>
      <annexAId>3</annexAId>
      <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>3</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>64</refId>
      <annexAId>3</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>65</refId>
      <annexAId>3</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>66</refId>
      <annexAId>3</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the InternalCert DID. This, combined with
        MangExternalCert, shall provide us with management permissions to view
    all of the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>67</refId>
      <annexAId>4</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the MangExternalCert DID. This
shall provide us with management permissions
     to view all of the smart card, except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>4</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369644652D54432D53
657373696F6E49442D328100821C536D617274636172645369644652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>4</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>4</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>84</refId>
      <annexAId>4</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the MangExternalCert DID. This shall
        provide us with management permissions to view all of the smart card,
    except the AccessLog.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>85</refId>
      <annexAId>5</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
    us with permission to view the AccessLog.</description>
      <encodedData
    type="xs:hexBinary">7F901B12A110800100A102800082054348504 94E8300</encodedDat
    a>
    </invAspect>
    <invAspect>
      <refId>86</refId>
      <annexAId>5</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>87</refId>
      <annexAId>5</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>5</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>100</refId>
        <annexAId>5</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>101</refId>
        <annexAId>5</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>102</refId>
        <annexAId>5</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition:
      Authenticate the CHPIN DID. This shall provide us with
        permission to view the AccessLog.</description>
        <encodedData
      type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>103</refId>
        <annexAId>6</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclList</method>
        <invocationType>CALL</invocationType>
```

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```
  <description>Pre-condition: Retrieve the A00000041000020001 card
application access rules. Ensure that the ACL is as
      expected.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010081104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>6</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>6</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>128</refId>
      <annexAId>6</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>129</refId>
      <annexAId>6</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>130</refId>
      <annexAId>6</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000020001 card application access
         rules. Ensure that the ACL is as expected.</description>
      <encodedData
    type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
    696F6EA109860741434C4C697374A2038101FF3026801444696666572656E7469616C496465
    6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
    6F6EA10F820D4578656375746541637469F6EA203820100302B800A436F6E6E656374696F6E
    A11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172
    644170706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A20381
```

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```
01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C
69636174696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174
696F6EA11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43
6172644170706C69636174696F6EA11782154361726441707 06C69636174696F6E44656C6574
65A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F
6E537461727453657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA1
1C821A436172644170706C69636174696F6E536572766963654C697374A2038201003034800F
436172644170706C69636174696F6EA11C821A436172644170706C69636174696F6E53657276
6963654C6F6164A2038201003036800F436172644170706C69636174696F6EA11E821C436172
644170706C69636174696F6E536572766963654372656174 65A2038201003036800F43617264
4170706C69636174696F6EA11E821C436172644170706C69636174696F6E5365727669636544
656C657465A2038201003038800F436172644170706C69636174696F6EA12082 1E4361726441
70706C69636174696F6E536572766963654465736372696265A2038201003052800 94E616D65
6444617461A10F830D446174615365744372656174 65A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
305280094E616D656444617461A10F830D446174615365744465 6C657465A234A432A015800C
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74A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF3059801444696666572656E7469616C4964656E7469
7479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966
666572656E7469616C4964656E74697479A10B85094449444465 6C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF30819980094E616D6564446174 61A10D830B446174615365744C697374A2
7DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657 26E616C43657274A10280008201 00A0198010426574614578746 5726E61
6C43657274A10280008201008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application DID list. Ensure that the DID list
     contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>133</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
```

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```
  <annexAId>7</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>146</refId>
        <annexAId>7</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>147</refId>
        <annexAId>7</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>148</refId>
        <annexAId>7</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didList</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
      the A00000041000010001 card application DID
            list. Ensure that the DID list contains the expected
      DIDs.</description>
        <encodedData
      type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
      741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
      11416C70686145787465726E616C43657274820641504 95F4F4B</encodedData>
      </invAspect>
```

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```
<invAspect>
  <refId>149</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application DataSet list. Ensure that the DataSet
     list contains the expected DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>161</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D536573736696E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>8</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>8</annexAId>
```

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```
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>166</refId>
      <annexAId>8</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000010001 card application
         DataSet list. Ensure that the DataSet list contains the expected
    DataSets.</description>
      <encodedData
    type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
    331A094163636573734C6F6782064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>167</refId>
      <annexAId>9</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Select the 1-DS1 DataSet.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
    </invAspect>
    <invAspect>
      <refId>168</refId>
      <annexAId>9</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>169</refId>
      <annexAId>9</annexAId>
      <layer>IFD</layer>
```

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```
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>9</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>182</refId>
      <annexAId>9</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>183</refId>
      <annexAId>9</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>184</refId>
      <annexAId>9</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    1-DS1 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>185</refId>
      <annexAId>10</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 1-DS1 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
```

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```
  <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
```

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```
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>10</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
      </invAspect>
      <invAspect>
        <refId>198</refId>
        <annexAId>10</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>CALL</invocationType>
        <description>Wait for the response, from the TC Agent, to the previous
      write.</description>
        <encodedData
      type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>199</refId>
        <annexAId>10</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
           marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
           as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>200</refId>
        <annexAId>10</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>201</refId>
        <annexAId>10</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS1 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D445349318206415049 5F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>210</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>11</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>218</refId>
        <annexAId>11</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>219</refId>
        <annexAId>11</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>220</refId>
        <annexAId>11</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetSelect</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition: Select the
      1-DS2 DataSet.</description>
        <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>221</refId>
        <annexAId>12</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiList</method>
        <invocationType>CALL</invocationType>
        <description>Pre-condition: Retrieve the 1-DS2 DSI list. Ensure that the
      DSI list contains the expected DSIs.</description>
        <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
      </invAspect>
      <invAspect>
        <refId>222</refId>
        <annexAId>12</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>12</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>235</refId>
      <annexAId>12</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>236</refId>
      <annexAId>12</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>237</refId>
      <annexAId>12</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>238</refId>
      <annexAId>12</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS2 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
44534932820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>239</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 1-DS3 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445333</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>13</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>255</refId>
      <annexAId>13</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>256</refId>
      <annexAId>13</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    1-DS3 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>257</refId>
      <annexAId>14</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 1-DS3 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>258</refId>
      <annexAId>14</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>14</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 1-DS3 DSI list. Ensure that the DSI list
      contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D44534933820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E80010081094163636573734C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>290</refId>
  <annexAId>15</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>291</refId>
      <annexAId>15</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>292</refId>
      <annexAId>15</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    AccessLog DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>293</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
    the DSI list contains the expected DSI.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>294</refId>
      <annexAId>16</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
      the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>295</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>16</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>16</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>308</refId>
      <annexAId>16</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>309</refId>
      <annexAId>16</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>310</refId>
      <annexAId>16</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the AccessLog DSI list. Ensure that the DSI
         list contains the expected DSI.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
    encodedData>
    </invAspect>
    <invAspect>
      <refId>311</refId>
      <annexAId>17</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Connect to the A00000041000020001 card
application. The following set of actions shall
     test the A00000041000020001 card application pre-
conditions.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C756520494644205265616465722534E323433324134840101
8509A00000041000020001810100</encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>17</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>327</refId>
        <annexAId>17</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>328</refId>
        <annexAId>17</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationConnect</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition: Connect to
      the A00000041000020001 card application. The
           following set of actions shall test the A00000041000020001 card
      application pre-conditions.</description>
        <encodedData
      type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>329</refId>
        <annexAId>18</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>CALL</invocationType>
        <description>Pre-condition: Authenticate the InternalCert DID. This,
      combined with MangExternalCert, shall provide us
           with management permissions to view all of the smartcard.</description>
        <encodedData
      type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
      00</encodedData>
      </invAspect>
      <invAspect>
        <refId>330</refId>
        <annexAId>18</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>339</refId>
  <annexAId>18</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>344</refId>
      <annexAId>18</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>345</refId>
      <annexAId>18</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>346</refId>
      <annexAId>18</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition:
    Authenticate the InternalCert DID. This, combined with
          MangExternalCert, shall provide us with management permissions to view
    all of the smartcard.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>347</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Authenticate the MangExternalCert DID. This
shall provide us with management permissions
     to view all of the smart card, except the AccessLog.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>349</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
```

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```
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>19</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>363</refId>
        <annexAId>19</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>364</refId>
        <annexAId>19</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition:
      Authenticate the MangExternalCert DID. This shall
           provide us with management permissions to view all of the smart card,
      except the AccessLog.</description>
        <encodedData
      type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>365</refId>
        <annexAId>20</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>CALL</invocationType>
        <description>Pre-condition: Authenticate the CHPIN DID. This shall provide
      us with permission to view the AccessLog.</description>
        <encodedData
      type="xs:hexBinary">7F901B12A110800101A102800082054348504 94E8300</encodedDat
      a>
      </invAspect>
      <invAspect>
        <refId>366</refId>
        <annexAId>20</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
```

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```
<invAspect>
  <refId>367</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
```

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```
  <annexAId>20</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>380</refId>
        <annexAId>20</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>381</refId>
        <annexAId>20</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>382</refId>
        <annexAId>20</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Pre-condition:
      Authenticate the CHPIN DID. This shall provide us with
            permission to view the AccessLog.</description>
        <encodedData
      type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>383</refId>
        <annexAId>21</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000010001 card
application access rules. Ensure that the ACL
      contains the expected access rules.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000020001</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>387</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>21</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>399</refId>
  <annexAId>21</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
```

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```
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>404</refId>
      <annexAId>21</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>405</refId>
      <annexAId>21</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>406</refId>
      <annexAId>21</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000010001 card application access
          rules. Ensure that the ACL contains the expected access
    rules.</description>
      <encodedData
    type="xs:hexBinary">7F901E820379A182036DA0820369301F800D417574686F72697A6174
    696F6EA109860741434C4C697374A2038101FF3026801444696666572656E7469616C496465
    6E74697479A10985074449444C697374A2038101FF302B800A436F6E6E656374696F6EA11881
```

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```
164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170
706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF30
2E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E
6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C696361
74696F6E456E6453657373696F6EA2038101FF3030800A436F6E6E656374696F6EA11D811B43
6172644170706C69636174696F6E537461727453657373696F6EA2038101FF305280094E616D
656444617461A10F830D44617461536574437265617465A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF305280094E616D656444617461A10F830D44617461536574446 56C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F646966
79A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578
7465726E616C43657274A10280008201FF3059801444696666657 2656E7469616C4964656E74
697479A10B85094449444374265617465A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305980144469
66666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A01580
0C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FF307E80094E616D656444617461A10D830B4461746153657 44C697374A2
62A460A015800C496E7465726E616C43657274A10280008201FFA547A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657 26E616C43657274A1028000820100820641504957 4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DID list. Ensure that the DID list
     contains the expected DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>22</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>422</refId>
      <annexAId>22</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>423</refId>
      <annexAId>22</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>424</refId>
      <annexAId>22</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the A00000041000020001 card application DID
        list. Ensure that the DID list contains the expected
    DIDs.</description>
      <encodedData
    type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
    741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
    11416C70686145787465726E616C43657274820641504 95F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>425</refId>
      <annexAId>23</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the A00000041000020001 card
application DataSet list. Ensure that the DataSet
     list contains the expected DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>23</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>442</refId>
       <annexAId>23</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetList</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
     the A00000041000020001 card application
          DataSet list. Ensure that the DataSet list contains the expected
     DataSets.</description>
       <encodedData
     type="xs:hexBinary">7F8F7225A11BA0191A05322D4453311A05322D4453321A0941636365
     73734C6F6782064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>443</refId>
       <annexAId>24</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetSelect</method>
       <invocationType>CALL</invocationType>
       <description>Pre-condition: Select the 2-DS1 DataSet.</description>
       <encodedData
     type="xs:hexBinary">7F8F750CA10A8001018105322D445331</encodedData>
     </invAspect>
     <invAspect>
       <refId>444</refId>
       <annexAId>24</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>445</refId>
       <annexAId>24</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>446</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>452</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>24</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>455</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>458</refId>
      <annexAId>24</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>459</refId>
      <annexAId>24</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>460</refId>
      <annexAId>24</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    2-DS1 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>461</refId>
      <annexAId>25</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 2-DS1 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>462</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>464</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>466</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>470</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>25</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
```

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```
      <annexAId>25</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>475</refId>
      <annexAId>25</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>476</refId>
      <annexAId>25</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>477</refId>
      <annexAId>25</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>478</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 2-DS1 DSI list. Ensure that the DSI list
     contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A322D4453312D445349311A0A322D4453312D
44534932820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the 2-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105322D445332</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>482</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D32810821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>26</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32819687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>26</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>495</refId>
      <annexAId>26</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>496</refId>
      <annexAId>26</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    2-DS2 DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>497</refId>
      <annexAId>27</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the 2-DS2 DSI list. Ensure that the
    DSI list contains the expected DSIs.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>498</refId>
      <annexAId>27</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>27</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the 2-DS2 DSI list. Ensure that the DSI list
      contains the expected DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A322D4453322D4453493182064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
```

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```
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>28</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>531</refId>
      <annexAId>28</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>532</refId>
      <annexAId>28</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Select the
    AccessLog DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>533</refId>
      <annexAId>29</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Retrieve the AccessLog DSI list. Ensure that
    the DSI list contains the expected DSI.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>534</refId>
      <annexAId>29</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
      the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
```

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```
  <refId>535</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
  <annexAId>29</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>542</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>543</refId>
  <annexAId>29</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>544</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>546</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>548</refId>
      <annexAId>29</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>549</refId>
      <annexAId>29</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>550</refId>
      <annexAId>29</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
    the AccessLog DSI list. Ensure that the DSI
          list contains the expected DSI.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
    encodedData>
    </invAspect>
    <invAspect>
      <refId>551</refId>
      <annexAId>30</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Disconnect from the A00000041000020001 card
application as local DIDs were authenticated
      during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
```

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```
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>563</refId>
  <annexAId>30</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>566</refId>
  <annexAId>30</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>568</refId>
      <annexAId>30</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
    from the A00000041000020001 card application
        as local DIDs were authenticated during this connection.</description>
      <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>569</refId>
      <annexAId>31</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Disconnect from the A00000041000010001 card
    application as local DIDs were authenticated
        during this connection.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>570</refId>
      <annexAId>31</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>571</refId>
      <annexAId>31</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465
2D54432D53657373696F6E49442D328100821C536D6172746361726453696465
2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>584</refId>
      <annexAId>31</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>585</refId>
      <annexAId>31</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>586</refId>
      <annexAId>31</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>disconnect</method>
      <invocationType>CALL</invocationType>
      <description></description>
      <encodedData>
          <ns2:Disconnect>

           <SlotHandle>00</SlotHandle>
          </ns2:Disconnect>
      </encodedData>
    </invAspect>
    <invAspect>
      <refId>587</refId>
      <annexAId>31</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D2A181CFA057801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E65
74821C436C69656E7441707053696465 2D54432D53657373696F6E49442D3281743C6E73323A
446973636F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C536C6F7448616E646C
653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A446973636F6E6E6563743E</enco
dedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106 4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationTypeType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D32810 821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8180A17680743C6E73323A446973636F6E6E65637420786D6C
6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A74656368
3A736368656D61223E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E64
6C653E0A3C2F6E73323A446973636F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description></description>
  <encodedData>
     <ns2:Disconnect>

      <SlotHandle>00</SlotHandle>
     </ns2:Disconnect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181C6A181C3A03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D328181803C6E73323A446973636F6E6E656374526573706F6E736520786D6C6E73
3A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73
6368656D61223E0A2020200203C526573756C743E4946445F4F4B3C2F526573756C743E0A3C2F
6E73323A446973636F6E6E656374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818EA181838081803C6E73323A446973636F6E6E6563745265
73706F6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A
32343732373A746563683A736368656D61223E0A2020202020C526573756C743E4946445F4F4B
3C2F526573756C743E0A3C2F6E73323A446973636F6E6E65637452657370F6E73653E820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
  <annexAId>31</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>disconnect</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:DisconnectResponse>

      <Result>IFD_OK</Result>
     </ns2:DisconnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Disconnect
from the A00000041000010001 card application
     as local DIDs were authenticated during this connection.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>599</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Connect to the A00000041000010001 card application. The
following set of actions shall delete the
     A00000041000010001 application.</description>
  <encodedData
type="xs:hexBinary">7F8F574CA14AA045A11B8019687474703A2F2F736D61727463617264
2D686F73742E6E65748318426C7565204946442052656164657220534E323433324134840101
8509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:Connect>

      <ContextHandle>00</ContextHandle>

        <IFDName>Blue IFD Reader SN2432A4</IFDName>

      <Slot>1</Slot>

      <Exclusive>false</Exclusive>
     </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820138A1820134A057801C436C69656E74417070536964652D
54432D53657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E
6E6574821C436C69656E74417070536964652D54432D53657373696F6E49442D328181D83C6E
73323A436F6E6E65637420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E746578744861
6E646C653E30303C2F436F6E7465787448616E646C653E0A202020203C4946444E616D653E42
6C7565204946442052656164657220534E3234333241343C2F4946444E616D653E0A20202020
3C536C6F743E313C2F536C6F743E0A202020203C4578636C75736976653E66616C73653C2F45
78636C75736976653E0A3C2F6E73323A436F6E6E6563743E</encodedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>603</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81E6A181DB8081D83C6E73323A436F6E6E65637420786D6C6E
733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A
736368656D61223E0A202020203C436F6E746578744861 6E646C653E30303C2F436F6E746578
7448616E646C653E0A202020203C4946444E616D653E426C7565204946442052656164657220
534E3234333241343C2F4946444E616D653E0A202020203C536C6F743E313C2F536C6F743E0A
202020203C4578636C75736976653E66616C73653C2F4578636C75736976653E0A3C2F6E7332
3A436F6E6E6563743E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the designated slot. The arguments are derived
from the previous SAL Proxy
     CardApplicationConnect call object.</description>
  <encodedData>
      <ns2:Connect>

       <ContextHandle>00</ContextHandle>

          <IFDName>Blue IFD Reader SN2432A4</IFDName>

       <Slot>1</Slot>

       <Exclusive>false</Exclusive>
      </ns2:Connect>
  </encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>32</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E0A181DDA03E801C536D617274636172645369646652D5443
2D53657373696F6E49442D328100821C536D617274636172645369646652D54432D5365737369
6F6E49442D3281819A3C6E73323A436F6E6E656374526573706F6E736520786D6C6E733A6E73
323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A746563683A73636865
6D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C743E0A202020203C
536C6F7448616E646C653E30303C2F536C6F7448616E646C653E0A3C2F6E73323A436F6E6E65
6374526573706F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>610</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81A8A1819D80819A3C6E73323A436F6E6E656374526573706F
6E736520786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A323437
32373A746563683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F52
6573756C743E0A202020203C536C6F7448616E646C653E30303C2F536C6F7448616E646C653E
0A3C2F6E73323A436F6E6E656374526573706F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>connect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Connect to the designated
slot. The arguments are derived from the
     previous SAL Proxy CardApplicationConnect call object.</description>
  <encodedData>
     <ns2:ConnectResponse>

      <Result>IFD_OK</Result>

      <SlotHandle>00</SlotHandle>
     </ns2:ConnectResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>616</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>32</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>626</refId>
        <annexAId>32</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>627</refId>
        <annexAId>32</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>628</refId>
        <annexAId>32</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationConnect</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Connect to the
      A00000041000010001 card application. The following set
        of actions shall delete the A00000041000010001
      application.</description>
        <encodedData
      type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>629</refId>
        <annexAId>33</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didAuthenticate</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Authenticate the Management external DID. Only management can
delete objects.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800100A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>630</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>635</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>638</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>639</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726425D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>644</refId>
  <annexAId>33</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>Transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>646</refId>
      <annexAId>33</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate the
    Management external DID. Only management can delete
        objects.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>647</refId>
      <annexAId>34</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>CALL</invocationType>
      <description>Authenticate the Interanl DID.</description>
      <encodedData
    type="xs:hexBinary">7F901B19A11780010A1028000820C496E7465726E616C4365727483
    00</encodedData>
    </invAspect>
    <invAspect>
      <refId>648</refId>
      <annexAId>34</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>649</refId>
      <annexAId>34</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the command APDU from the GCI layer to the IFD
    layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>656</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>657</refId>
  <annexAId>34</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>658</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>660</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>662</refId>
      <annexAId>34</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>663</refId>
      <annexAId>34</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>664</refId>
      <annexAId>34</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didAuthenticate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Authenticate the Interanl
    DID.</description>
      <encodedData
    type="xs:hexBinary">7F901C0CA102800082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>665</refId>
      <annexAId>35</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Select the 1-DS1 DataSet.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>666</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>667</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>670</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>35</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
      <refId>678</refId>
      <annexAId>35</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>679</refId>
      <annexAId>35</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>680</refId>
      <annexAId>35</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>681</refId>
      <annexAId>35</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>682</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Select the 1-DS1
DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>683</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the 1-DS1 DSI. Ensure that a DSI can be
deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F7D11A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>684</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>686</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D32810082D536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>689</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>690</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>691</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>692</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>693</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>694</refId>
  <annexAId>36</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>695</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>696</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3281196874703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>697</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>698</refId>
  <annexAId>36</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
```

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```
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>699</refId>
        <annexAId>36</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>700</refId>
        <annexAId>36</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiDelete</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Delete the 1-DS1 DSI.
      Ensure that a DSI can be deleted.</description>
        <encodedData type="xs:hexBinary">7F8F7E0882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>701</refId>
        <annexAId>37</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiRead</method>
        <invocationType>CALL</invocationType>
        <description>Attempt to read the 1-DS1-DSI1 DSI. Ensure that deleted DSI
      can no longer be read.</description>
        <encodedData
      type="xs:hexBinary">7F900111A10F800100810A312D4453312D44534931</encodedData>
      </invAspect>
      <invAspect>
        <refId>702</refId>
        <annexAId>37</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
```

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```
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>703</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>704</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>705</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>706</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>707</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>708</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>709</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>710</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>711</refId>
  <annexAId>37</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>712</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>713</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>714</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
```

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```
      657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
      1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
      </invAspect>
      <invAspect>
        <refId>715</refId>
        <annexAId>37</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>716</refId>
        <annexAId>37</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>717</refId>
        <annexAId>37</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>718</refId>
        <annexAId>37</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiRead</method>
        <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Attempt to read the 1-DS1-
DSI1 DSI. Ensure that deleted DSI can no
      longer be read.</description>
  <encodedData
type="xs:hexBinary">7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F46
4F554E44</encodedData>
</invAspect>
<invAspect>
  <refId>719</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the 1-DS1-DSI1 DSI again. Ensure that a
deleted DSI can not again be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F7D11A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>720</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>721</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>722</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>723</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>724</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>725</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>726</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>727</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>728</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>729</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>730</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>731</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>732</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>733</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>734</refId>
  <annexAId>38</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>735</refId>
      <annexAId>38</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>736</refId>
      <annexAId>38</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to delete the 1-
    DS1-DSI1 DSI again. Ensure that a deleted DSI
        can not again be deleted.</description>
      <encodedData
    type="xs:hexBinary">7F8F7E1C821A4150495F4E414D45445F454E544954595F4E4F545F46
    4F554E44</encodedData>
    </invAspect>
    <invAspect>
      <refId>737</refId>
      <annexAId>39</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the 1-DS1-DSI1 DSI. Ensure that a deleted DSI can be
    recreated with different data.</description>
      <encodedData
    type="xs:hexBinary">7F8F7B34A132800100810A312D4453312D4453493182214E616D653A
    20426F62204D634C65616E3B20444F423A20313937382D31302D3033</encodedData>
    </invAspect>
    <invAspect>
      <refId>738</refId>
      <annexAId>39</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
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      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>739</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>740</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>741</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>742</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>743</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>744</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>745</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>746</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>747</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>748</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>749</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>750</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465652D54432D53
```

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657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>751</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>752</refId>
  <annexAId>39</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>753</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>754</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Create the 1-DS1-DSI1 DSI.
Ensure that a deleted DSI can be recreated
      with different data.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>755</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiRead</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the 1-DS1-DSI1 contents. Ensure that the recreated
DSI has the correct data.</description>
  <encodedData
type="xs:hexBinary">7F900111A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>756</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>757</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>758</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>759</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>760</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>761</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>762</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>763</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>764</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>765</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>766</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>767</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>768</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>769</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>770</refId>
  <annexAId>40</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>771</refId>
      <annexAId>40</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>772</refId>
      <annexAId>40</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiRead</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the 1-DS1-DSI1
    contents. Ensure that the recreated DSI has
      the correct data.</description>
      <encodedData
    type="xs:hexBinary">7F90022DA12380214E616D653A20426F62204D634C65616E3B20444F
    423A20313937382D31302D303382064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>773</refId>
      <annexAId>41</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Retrive the 1-DS1 DSI List. Ensure that the recreated DSI is
    in the DSI list.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>774</refId>
      <annexAId>41</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
      the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>775</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>776</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>777</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>778</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>779</refId>
```

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```
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>780</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>781</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>782</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>783</refId>
  <annexAId>41</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>784</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>785</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>786</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>787</refId>
```

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```
      <annexAId>41</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>788</refId>
      <annexAId>41</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>789</refId>
      <annexAId>41</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>790</refId>
      <annexAId>41</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>RETURN</invocationType>
     <description>Return of previous SAL Proxy call: Retrive the 1-DS1 DSI List.
    Ensure that the recreated DSI is in the
          DSI list.</description>
      <encodedData
    type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D44534931820641504 95F4F4B
    </encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>791</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the 1-DS1-DSI1 DSI again. Ensure that a recreated DSI
can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F7D11A10F800100810A312D4453312D44534931</encodedData>
</invAspect>
<invAspect>
  <refId>792</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>793</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>794</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>795</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>796</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>797</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>798</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>799</refId>
```

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```
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>800</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>801</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>802</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>803</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>804</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>805</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>806</refId>
  <annexAId>42</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>807</refId>
        <annexAId>42</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>808</refId>
        <annexAId>42</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiDelete</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Delete the 1-DS1-DSI1 DSI
      again. Ensure that a recreated DSI can be
           deleted.</description>
        <encodedData type="xs:hexBinary">7F8F7E0882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>809</refId>
        <annexAId>43</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dsiRead</method>
        <invocationType>CALL</invocationType>
        <description>Attempt to read the 1-DS1-DSI1 DSI. Ensure that the deleted
      DSI can no longer be read.</description>
        <encodedData
      type="xs:hexBinary">7F900111A10F800100810A312D4453312D44534931</encodedData>
      </invAspect>
      <invAspect>
        <refId>810</refId>
        <annexAId>43</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>811</refId>
        <annexAId>43</annexAId>
```

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```
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>812</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>813</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>814</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>815</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>816</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>817</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>818</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>819</refId>
  <annexAId>43</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>820</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>821</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>822</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>823</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>824</refId>
      <annexAId>43</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>825</refId>
      <annexAId>43</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>826</refId>
      <annexAId>43</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiRead</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to read the 1-DS1-
    DSI1 DSI. Ensure that the deleted DSI can no
         longer be read.</description>
      <encodedData
    type="xs:hexBinary">7F90021C821A4150495F4E414D45445F454E544954595F4E4F545F46
    4F554E44</encodedData>
    </invAspect>
    <invAspect>
      <refId>827</refId>
      <annexAId>44</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>dataSetDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the 1-DS1 DataSet. Ensure that an empty DataSet can be
deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F770CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>828</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>829</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>830</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>831</refId>
  <annexAId>44</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>832</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369644652D54432D53
657373696F6E49442D328100821C536D617274636172645369644652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>833</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>834</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>835</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>836</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>837</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>838</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>839</refId>
  <annexAId>44</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>840</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646 52D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>841</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>842</refId>
  <annexAId>44</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>843</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
```

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```
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>844</refId>
      <annexAId>44</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the 1-DS1 DataSet.
    Ensure that an empty DataSet can be deleted.</description>
      <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>845</refId>
      <annexAId>45</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to select the 1-DS1 DataSet. Ensure that a deleted
    DataSet can no longer be selected.</description>
      <encodedData
    type="xs:hexBinary">7F8F750CA10A8001008105312D445331</encodedData>
    </invAspect>
    <invAspect>
      <refId>846</refId>
      <annexAId>45</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>847</refId>
      <annexAId>45</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the command APDU from the GCI layer to the IFD
    layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>848</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>849</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>850</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>851</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>852</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>853</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>854</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>855</refId>
  <annexAId>45</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>856</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>857</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>858</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>859</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>860</refId>
      <annexAId>45</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>861</refId>
      <annexAId>45</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>862</refId>
      <annexAId>45</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to select the 1-
    DSI DataSet. Ensure that a deleted DataSet can
        no longer be selected.</description>
      <encodedData
    type="xs:hexBinary">7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F46
    4F554E44</encodedData>
    </invAspect>
    <invAspect>
      <refId>863</refId>
      <annexAId>46</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetDelete</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Attempt to delete the 1-DS1 DataSet. Ensure that the DataSet
has been deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F770CA10A8001008105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>864</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>865</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>866</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>867</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>868</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>869</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>870</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>871</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>872</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>873</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>874</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>875</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>876</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>877</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>878</refId>
  <annexAId>46</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>879</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>880</refId>
       <annexAId>46</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetDelete</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Attempt to delete the 1-
     DS1 DataSet. Ensure that the DataSet has been
          deleted.</description>
       <encodedData
     type="xs:hexBinary">7F8F781C821A4150495F4E414D45445F454E544954595F4E4F545F46
     4F554E44</encodedData>
     </invAspect>
     <invAspect>
       <refId>881</refId>
       <annexAId>47</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetDelete</method>
       <invocationType>CALL</invocationType>
       <description>Delete the 1-DS2 DataSet. Ensure that a DataSet that contains
     multiple DSIs can be deleted.</description>
       <encodedData
     type="xs:hexBinary">7F8F770CA10A8001008105312D445332</encodedData>
     </invAspect>
     <invAspect>
       <refId>882</refId>
       <annexAId>47</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>883</refId>
       <annexAId>47</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>884</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>885</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>886</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>887</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>888</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>889</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>890</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>891</refId>
  <annexAId>47</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>892</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>893</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>894</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>895</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>896</refId>
      <annexAId>47</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>897</refId>
      <annexAId>47</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>898</refId>
      <annexAId>47</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the 1-DS2 DataSet.
    Ensure that a DataSet that contains multiple
        DSIs can be deleted.</description>
      <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>899</refId>
      <annexAId>48</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to retrieve the 1-DS2 DataSet access rules. Ensure
    that the access rules for the deleted DataSet
        are not longer accessible.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901D18A116800100810844415412D534554A2078005312D445332
</encodedData>
</invAspect>
<invAspect>
  <refId>900</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>901</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>902</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>903</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>904</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>905</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>906</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>907</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>908</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>909</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>910</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>911</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>912</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>913</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>914</refId>
  <annexAId>48</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>915</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>916</refId>
       <annexAId>48</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>aclList</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Attempt to retrieve the 1-
     DS2 DataSet access rules. Ensure that the
          access rules for the deleted DataSet are not longer
     accessible.</description>
       <encodedData
     type="xs:hexBinary">7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F46
     4F554E44</encodedData>
     </invAspect>
     <invAspect>
       <refId>917</refId>
       <annexAId>49</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>dataSetSelect</method>
       <invocationType>CALL</invocationType>
       <description>Attempt to select the 1-DS2 DataSet. Ensure that a deleted
     DataSet can not longer be selected.</description>
       <encodedData
     type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
     </invAspect>
     <invAspect>
       <refId>918</refId>
       <annexAId>49</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>919</refId>
       <annexAId>49</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>920</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>921</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>922</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>923</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>924</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>925</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>926</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>927</refId>
  <annexAId>49</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>928</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>929</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>930</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>931</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>932</refId>
      <annexAId>49</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>933</refId>
      <annexAId>49</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>934</refId>
      <annexAId>49</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to select the 1-
    DS2 DataSet. Ensure that a deleted DataSet can
        not longer be selected.</description>
      <encodedData
    type="xs:hexBinary">7F8F761C821A4150495F4E414D45445F454E544954595F4E4F545F46
    4F554E44</encodedData>
    </invAspect>
    <invAspect>
      <refId>935</refId>
      <annexAId>50</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Create the 1-DS2 DataSet with a minimal access rules. Ensure
that a deleted DataSet can be recreated.
      Recreate the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F73820205A18202018001008105312D445332A28201F3301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF30819580094E616D65
6444617461A10983074453494C697374A27DA47BA015800C496E7465726E616C43657274A102
80008201FFA562A00E8005434850494EA1028000820100A01980104D616E6745787465726E61
6C43657274A10280008201FFA01A8011416C70686145787465726E616C43657274A102800082
0100A0198010426574614578746572 6E616C43657274A10280008201003081998009 4E616D65
6444617461A10D830B446174615365744C697374A27DA47BA015800C496E7465726E616C4365
7274A10280008201FFA562A00E8005434850494EA1028000820100A01980104D616E67457874
65726E616C43657274A10280008201FFA01A8011416C70686145787465726E616C43657274A1
028000820100A0198010426574614578746572 6E616C43657274A10280008201003081 9B8009
4E616D656444617461A10F830D4461746153657453656C656374A27DA47BA015800C496E7465
726E616C43657274A10280008201FFA562A00E8005434850494EA1028000820100A01980104D
616E6745787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E61
6C43657274A1028000820100A0198010426574614578746572 6E616C43657274A10280008201
00</encodedData>
</invAspect>
<invAspect>
  <refId>936</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>937</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>938</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>939</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>940</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>941</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>942</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>943</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>944</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>945</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>946</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>947</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>948</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>949</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>950</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>951</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>952</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>953</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>954</refId>
  <annexAId>50</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>955</refId>
      <annexAId>50</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>956</refId>
      <annexAId>50</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetCreate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Create the 1-DS2 DataSet
    with a minimal access rules. Ensure that a
        deleted DataSet can be recreated. Recreate the 1-DS2
    DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>957</refId>
      <annexAId>51</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the 1-DS2 DataSet access rules. Ensure that the
    access rules for the recreated DataSet are the
        same as those specified in the recreation.</description>
      <encodedData
    type="xs:hexBinary">7F901D18A116800100810844154412D534554A2078005312D445332
    </encodedData>
    </invAspect>
    <invAspect>
      <refId>958</refId>
      <annexAId>51</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
```

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```
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>959</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>960</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>961</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>962</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>963</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>964</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>965</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>966</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>967</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>968</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>969</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>970</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>971</refId>
  <annexAId>51</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>972</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>973</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>974</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>975</refId>
      <annexAId>51</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>976</refId>
      <annexAId>51</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>977</refId>
      <annexAId>51</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>978</refId>
      <annexAId>51</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS2 DataSet
access rules. Ensure that the access rules
     for the recreated DataSet are the same as those specified in the
recreation.</description>
  <encodedData
type="xs:hexBinary">7F901E820203A18201F7A08201F3301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF30819580094E616D656444617461A109830744
53494C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E80
05434850494EA1028000820100A01980104D616E6745787465726E616C43657274A102800082
01FFA01A8011416C70686145787465726E616C43657274A1028000820100A019801042657461
45787465726E616C43657274A10280008201003081998009 4E616D656444617461A10D830B44
6174615365744C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA5
62A00E8005434850494EA1028000820100A01980104D616E6745787465726E616C43657274A1
0280008201FFA01A8011416C70686145787465726E616C43657274A1028000820100A0198010
426574614578746572656E616C43657274A10280008201003081 9B80094E616D656444617461A1
0F830D4461746153657453656C656374A27DA47BA015800C496E7465726E616C43657274A102
80008201FFA562A00E8005434850494EA1028000820100A01980104D616E6745787465726E61
6C43657274A10280008201FFA01A8011416C70686145787465726E616C43657274A102800082
0100A019801042657461457874657265726E616C43657274A1028000820100820641504 95F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>979</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Selecte the 1-DS2 DataSet. Ensure that the recreated DataSet
can be selected.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>980</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>981</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>982</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>983</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>984</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>985</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>986</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>987</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>988</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>989</refId>
  <annexAId>52</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>990</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>991</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>992</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
6573736F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>993</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>994</refId>
      <annexAId>52</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>995</refId>
      <annexAId>52</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>996</refId>
      <annexAId>52</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetSelect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Selecte the 1-DS2 DataSet.
    Ensure that the recreated DataSet can be
        selected.</description>
      <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>997</refId>
      <annexAId>53</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dsiList</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the 1-DS2 DSI list. Ensure that the contents of the
    recreated DataSet is empty.</description>
      <encodedData type="xs:hexBinary">7F8F7905A103800100</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>998</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>999</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1000</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1001</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1002</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1003</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1004</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1005</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1006</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1007</refId>
  <annexAId>53</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1008</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1009</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
      <refId>1010</refId>
      <annexAId>53</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1011</refId>
      <annexAId>53</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1012</refId>
      <annexAId>53</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1013</refId>
      <annexAId>53</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
```

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```
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1014</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the 1-DS2 DSI
list. Ensure that the contents of the recreated
      DataSet is empty.</description>
  <encodedData
type="xs:hexBinary">7F8F7A0CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1015</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the 1-DS2 DataSet again. Ensure that a recreated
DataSet can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F770CA10A8001008105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>1016</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1017</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1018</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1019</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1020</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1021</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1022</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
```

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```
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1023</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1024</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1025</refId>
  <annexAId>54</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1026</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1027</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1028</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1029</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1030</refId>
  <annexAId>54</annexAId>
```

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```
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1031</refId>
      <annexAId>54</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1032</refId>
      <annexAId>54</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the 1-DS2 DataSet
    again. Ensure that a recreated DataSet can be
         deleted.</description>
      <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1033</refId>
      <annexAId>55</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetDelete</method>
      <invocationType>CALL</invocationType>
      <description>Delete the 1-DS3 DataSet.</description>
      <encodedData
    type="xs:hexBinary">7F8F770CA10A8001008105312D445333</encodedData>
    </invAspect>
    <invAspect>
      <refId>1034</refId>
      <annexAId>55</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1035</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1036</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1037</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1038</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1039</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1040</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1041</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1042</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1043</refId>
  <annexAId>55</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1044</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1045</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1046</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1047</refId>
      <annexAId>55</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1048</refId>
      <annexAId>55</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1049</refId>
      <annexAId>55</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1050</refId>
      <annexAId>55</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetDelete</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the 1-DS3
DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1051</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>dataSetDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the Access Log DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7710A10E800100810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>1052</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1053</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1054</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1055</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1056</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1057</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1058</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1059</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1060</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1061</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1062</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1063</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1064</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1065</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1066</refId>
  <annexAId>56</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1067</refId>
      <annexAId>56</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1068</refId>
      <annexAId>56</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the Access Log
    DataSet.</description>
      <encodedData type="xs:hexBinary">7F8F780882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1069</refId>
      <annexAId>57</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>dataSetList</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the A00000041000010001 application DataSet list.
    Ensure that there are now no DataSets in the
        A00000041000010001 application.</description>
      <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>1070</refId>
      <annexAId>57</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>1071</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1072</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1073</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1074</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1075</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1076</refId>
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1077</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1078</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1079</refId>
```

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```
  <annexAId>57</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1080</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1081</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1082</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1083</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1084</refId>
        <annexAId>57</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1085</refId>
        <annexAId>57</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1086</refId>
        <annexAId>57</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>dataSetList</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Retrieve the
      A00000041000010001 application DataSet list. Ensure that
            there are now no DataSets in the A00000041000010001
      application.</description>
        <encodedData
      type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>1087</refId>
```

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```
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify A00000041000010001's ACLModify access rule. Enable
ACLModify execution after the internal
     certificate DID has been deleted.</description>
  <encodedData
type="xs:hexBinary">7F901F5DA15B800100811043415244D4150504C49434154494F4EA2
0B8209A00000041000010001830D417574686F72697A6174696F6EA40B860941434C4D6F6469
6679A51BA01980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>1088</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1089</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1090</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1091</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1092</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1093</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1094</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1095</refId>
```

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```
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1096</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1097</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1098</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1099</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1100</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1101</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1102</refId>
  <annexAId>58</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>1103</refId>
        <annexAId>58</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1104</refId>
        <annexAId>58</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Modify
      A00000041000010001's ACLModify access rule. Enable ACLModify
           execution after the internal certificate DID has been
      deleted.</description>
        <encodedData type="xs:hexBinary">7F9020082064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>1105</refId>
        <annexAId>59</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didGet</method>
        <invocationType>CALL</invocationType>
        <description>Retrieve the Internal DID. Ensure that the DID state is true.
      When this DID is recreated the state shall
           be false.</description>
        <encodedData
      type="xs:hexBinary">7F901517A115800100A1028000820C496E7465726E616C43657274</
      encodedData>
      </invAspect>
      <invAspect>
        <refId>1106</refId>
        <annexAId>59</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>CALL</invocationType>
        <description>Convert the SAL invocation into a GCI APDU and send the APDU
      to the smartcard using the transmit layer in
           the IFD Proxy.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
```

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```
<invAspect>
  <refId>1107</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1108</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1109</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1110</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1111</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1112</refId>
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1113</refId>
  <annexAId>59</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1114</refId>
  <annexAId>59</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1115</refId>
```

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```
  <annexAId>59</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1116</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1117</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1118</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1119</refId>
  <annexAId>59</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1120</refId>
      <annexAId>59</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1121</refId>
      <annexAId>59</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1122</refId>
      <annexAId>59</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didGet</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the Internal DID.
    Ensure that the DID state is true. When
          this DID is recreated the state shall be false.</description>
      <encodedData
    type="xs:hexBinary">7F90162CA122A020800C496E7465726E616C4365727481072881C117
    030003A20280008301FF840082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1123</refId>
```

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```
  <annexAId>60</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the Internal DID. Ensure that that a DID, that is
reference in ACLs, can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F901913A111800100810C496E7465726E616C43657274</encodedD
ata>
</invAspect>
<invAspect>
  <refId>1124</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1125</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1126</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1127</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1128</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1129</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1130</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1131</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1132</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1133</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1134</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1135</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1136</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1137</refId>
  <annexAId>60</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1138</refId>
  <annexAId>60</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1139</refId>
  <annexAId>60</annexAId>
  <layer>GCI</layer>
```

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```
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1140</refId>
      <annexAId>60</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the Internal DID.
    Ensure that that a DID, that is reference in
        ACLs, can be deleted.</description>
      <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1141</refId>
      <annexAId>61</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to delete the CHPIN DID. Ensure that an access rule
    pointing to a non-existent DID fails. The
        DIDDelete action requires InternalCert authentication. However
    InternalCert has been deleted.</description>
      <encodedData
    type="xs:hexBinary">7F90190CA10A8001008105434850494E</encodedData>
    </invAspect>
    <invAspect>
      <refId>1142</refId>
      <annexAId>61</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1143</refId>
      <annexAId>61</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
```

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```
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1144</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1145</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1146</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1147</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1148</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1149</refId>
  <annexAId>61</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1150</refId>
  <annexAId>61</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1151</refId>
  <annexAId>61</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1152</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1153</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1154</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1155</refId>
  <annexAId>61</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1156</refId>
        <annexAId>61</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1157</refId>
        <annexAId>61</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1158</refId>
        <annexAId>61</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didDelete</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Attempt to delete the
      CHPIN DID. Ensure that an access rule pointing
        to a non-existent DID fails. The DIDDelete action requires InternalCert
      authentication. However InternalCert has been
        deleted.</description>
        <encodedData
      type="xs:hexBinary">7F901A2682244150495F53454355524954595F434F4E444954494F4E
      5F4E4F545F534154495346494544</encodedData>
      </invAspect>
      <invAspect>
        <refId>1159</refId>
        <annexAId>62</annexAId>
        <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify A00000041000010001's DIDDelete access rule. Remove the
deleted Internal DID from the DIDDelete
     access rule. This shall enable the deletion of DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F64A16280010081104341524 42D4150504C49434154494F4EA2
0B8209A000000410000100018314446966666572656E7469616C4964656E74697479A40B8509
44494444656C657465A51BA01980104D616E6745787465726E616C43657274A10280008201FF
</encodedData>
</invAspect>
<invAspect>
  <refId>1160</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1161</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1162</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1163</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1164</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1165</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1166</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1167</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1168</refId>
  <annexAId>62</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1169</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1170</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>1171</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1172</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D536573736696E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1173</refId>
  <annexAId>62</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1174</refId>
  <annexAId>62</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1175</refId>
  <annexAId>62</annexAId>
```

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```
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1176</refId>
      <annexAId>62</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Modify
    A00000041000010001's DIDDelete access rule. Remove the deleted
        Internal DID from the DIDDelete access rule. This shall enable the
    deletion of DIDs.</description>
      <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1177</refId>
      <annexAId>63</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>CALL</invocationType>
      <description>Delete the CHPIN DID. This shall now succeed.</description>
      <encodedData
    type="xs:hexBinary">7F90190A10A800100810543485 0494E</encodedData>
    </invAspect>
    <invAspect>
      <refId>1178</refId>
      <annexAId>63</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1179</refId>
      <annexAId>63</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1180</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1181</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1182</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1183</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1184</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1185</refId>
  <annexAId>63</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1186</refId>
  <annexAId>63</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1187</refId>
  <annexAId>63</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1188</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1189</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1190</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1191</refId>
  <annexAId>63</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
```

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```
        marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
        as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1192</refId>
      <annexAId>63</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1193</refId>
      <annexAId>63</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1194</refId>
      <annexAId>63</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the CHPIN DID. This
    shall now succeed.</description>
      <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1195</refId>
      <annexAId>64</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>CALL</invocationType>
      <description>Delete the AlphaExternalCert DID.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901918A1168001008111416C70686145787465726E616C43657274
</encodedData>
</invAspect>
<invAspect>
  <refId>1196</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1197</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1198</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1199</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1200</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1201</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1202</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1203</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1204</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1205</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1206</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1207</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1208</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E744170705369646652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1209</refId>
  <annexAId>64</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1210</refId>
  <annexAId>64</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1211</refId>
  <annexAId>64</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>1212</refId>
       <annexAId>64</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didDelete</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Delete the
     AlphaExternalCert DID.</description>
       <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>1213</refId>
       <annexAId>65</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didDelete</method>
       <invocationType>CALL</invocationType>
       <description>Delete the BetaExternalCert DID.</description>
       <encodedData
     type="xs:hexBinary">7F901917A11580010081104265746145787465726E616C43657274</
     encodedData>
     </invAspect>
     <invAspect>
       <refId>1214</refId>
       <annexAId>65</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>1215</refId>
       <annexAId>65</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1216</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1217</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1218</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1219</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1220</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1221</refId>
  <annexAId>65</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1222</refId>
  <annexAId>65</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1223</refId>
  <annexAId>65</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1224</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1225</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1226</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1227</refId>
  <annexAId>65</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>1228</refId>
        <annexAId>65</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1229</refId>
        <annexAId>65</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1230</refId>
        <annexAId>65</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didDelete</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Delete the
      BetaExternalCert DID.</description>
        <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>1231</refId>
        <annexAId>66</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>aclModify</method>
        <invocationType>CALL</invocationType>
        <description>Modify A00000041000010001's ACLModify access rule. Remove all
      restrictions on the ACLModify action.</description>
        <encodedData
      type="xs:hexBinary">7F901F45A1438001008110434152442D4150504C49434154494F4EA2
      0B8209A000000410000100018300D417574686F72697A6174696F6EA40B860941434C4D6F6469
      6679A5038101FF</encodedData>
      </invAspect>
      <invAspect>
        <refId>1232</refId>
        <annexAId>66</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1233</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1234</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1235</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1236</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1237</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1238</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1239</refId>
  <annexAId>66</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1240</refId>
  <annexAId>66</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1241</refId>
  <annexAId>66</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1242</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1243</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1244</refId>
  <annexAId>66</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1245</refId>
      <annexAId>66</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1246</refId>
      <annexAId>66</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1247</refId>
      <annexAId>66</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1248</refId>
```

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```
  <annexAId>66</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify
A00000041000010001's ACLModify access rule. Remove all
     restrictions on the ACLModify action.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1249</refId>
  <annexAId>67</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the MangExternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901917A11580010081104D616E6745787465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1250</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1251</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1252</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1253</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1254</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1255</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1256</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1257</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1258</refId>
  <annexAId>67</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1259</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1260</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1261</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1262</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1263</refId>
  <annexAId>67</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1264</refId>
  <annexAId>67</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1265</refId>
      <annexAId>67</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1266</refId>
      <annexAId>67</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the
    MangExternalCert DID.</description>
      <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1267</refId>
      <annexAId>68</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didList</method>
      <invocationType>CALL</invocationType>
      <description>Retrieve the A00000041000010001 card application DID list.
    Ensure that there are no DIDs in the
         A00000041000010001 application.</description>
      <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>1268</refId>
      <annexAId>68</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1269</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1270</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1271</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1272</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1273</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1274</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1275</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1276</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1277</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1278</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1279</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1280</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E744170705369646652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1281</refId>
  <annexAId>68</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1282</refId>
  <annexAId>68</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1283</refId>
  <annexAId>68</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1284</refId>
  <annexAId>68</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application DID list. Ensure that
      there are no DIDs in the A00000041000010001 application.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1285</refId>
  <annexAId>69</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the MangExternalCert DID again. We do not
have permission to delete a non-existent DID
      as the DIDDelete access rule requires MangExternalCert authentication.
The MangExternalCert DID has been deleted.</description>
  <encodedData
type="xs:hexBinary">7F901917A11580010081104D616E6745787465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1286</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1287</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1288</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1289</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1290</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1291</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1292</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1293</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1294</refId>
  <annexAId>69</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1295</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1296</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1297</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1298</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1299</refId>
  <annexAId>69</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1300</refId>
  <annexAId>69</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1301</refId>
      <annexAId>69</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1302</refId>
      <annexAId>69</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to delete the
    MangExternalCert DID again. We do not have
         permission to delete a non-existent DID as the DIDDelete access rule
    requires MangExternalCert authentication. The
         MangExternalCert DID has been deleted.</description>
      <encodedData
    type="xs:hexBinary">7F901A2682244150495F53454355524954595F434F4E444954494F4E
    5F4E4F545F534154495346494544</encodedData>
    </invAspect>
    <invAspect>
      <refId>1303</refId>
      <annexAId>70</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify A00000041000010001's DIDDelete access rule. Remove all
    restrictions on the DIDDelete action. As
         all of the DIDs have been deleted, we can not authenticate against any
    DIDs.</description>
      <encodedData
    type="xs:hexBinary">7F901F4CA14A800100811043415244150504C49434154494F4EA2
    0B8209A000000410000100018314446966666572656E7469616C4964656E74697479A40B8509
    44494444656C657465A5038101FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>1304</refId>
      <annexAId>70</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1305</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1306</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1307</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1308</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1309</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1310</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1311</refId>
  <annexAId>70</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1312</refId>
  <annexAId>70</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1313</refId>
  <annexAId>70</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1314</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1315</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1316</refId>
  <annexAId>70</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>CALL</invocationType>
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1317</refId>
      <annexAId>70</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1318</refId>
      <annexAId>70</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1319</refId>
      <annexAId>70</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1320</refId>
```

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```
  <annexAId>70</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify
A00000041000010001's DIDDelete access rule. Remove all
     restrictions on the DIDDelete action. As all of the DIDs have been
deleted, we can not authenticate against any DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1321</refId>
  <annexAId>71</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the MangExternalCert DID again. Ensure that
a deleted DID can not be deleted.</description>
  <encodedData
type="xs:hexBinary">7F901917A11580010081104D616E6745787465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1322</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1323</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1324</refId>
  <annexAId>71</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1325</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415O495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1326</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D32810082 1C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1327</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1328</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1329</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1330</refId>
  <annexAId>71</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1331</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1332</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1333</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415O495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1334</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747470 3A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1335</refId>
  <annexAId>71</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1336</refId>
  <annexAId>71</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
```

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```
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1337</refId>
      <annexAId>71</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1338</refId>
      <annexAId>71</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to delete the
    MangExternalCert DID again. Ensure that a
         deleted DID can not be deleted.</description>
      <encodedData
    type="xs:hexBinary">7F901A1C821A4150495F4E414D45445F454E544954595F4E4F545F46
    4F554E44</encodedData>
    </invAspect>
    <invAspect>
      <refId>1339</refId>
      <annexAId>72</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Modify A00000041000010001's DIDCreate access rule. Remove all
    restrictions on the DIDCreate action.</description>
      <encodedData
    type="xs:hexBinary">7F901F4CA14A800100811043415244150504C49434154494F4EA2
    0B8209A000000410000100018314446966666572656E7469616C4964656E74697479A40B8509
    4449444437265617465A5038101FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>1340</refId>
      <annexAId>72</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1341</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1342</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1343</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1344</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1345</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1346</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1347</refId>
  <annexAId>72</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1348</refId>
  <annexAId>72</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1349</refId>
  <annexAId>72</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1350</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1351</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1352</refId>
  <annexAId>72</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1353</refId>
      <annexAId>72</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1354</refId>
      <annexAId>72</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1355</refId>
      <annexAId>72</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1356</refId>
      <annexAId>72</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify
A00000041000010001's DIDCreate access rule. Remove all
     restrictions on the DIDCreate action.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1357</refId>
  <annexAId>73</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Internal DID again. Ensure that a deleted DID can
be recreated.</description>
  <encodedData
type="xs:hexBinary">7F90138201C4A18201C0800100810C496E7465726E616C4365727482
072881C117030003A3028000A482019E301C800D437279707465726170686963A106840453
69676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A203
8101FF3020800D43727970746F67726170686963A10A84084656369706865726A20382010030
20800D43727970746F67726170686963A10A8408456E6369706865726A2038201003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726
5E7469616C4964656E74697479A10885064449447657 4A2038101FF3027800D43727970746F
67726170686963A111840F566572696679536976E6174757265A203820100302880144469666
666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101FF302980
0D43727970746F67726170686963A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F4449444417574686
5E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>1358</refId>
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1359</refId>
  <annexAId>73</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1360</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1361</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1362</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1363</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1364</refId>
  <annexAId>73</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1365</refId>
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1366</refId>
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1367</refId>
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1368</refId>
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1369</refId>
  <annexAId>73</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1370</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1371</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1372</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1373</refId>
  <annexAId>73</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1374</refId>
  <annexAId>73</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1375</refId>
  <annexAId>73</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
```

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```
</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>1376</refId>
       <annexAId>73</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didCreate</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Create the Internal DID
     again. Ensure that a deleted DID can be
          recreated.</description>
       <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>1377</refId>
       <annexAId>74</annexAId>
       <layer>SAL</layer>
       <layerName>SAL</layerName>
       <method>didGet</method>
       <invocationType>CALL</invocationType>
       <description>Retrieve the Internal DID. Ensure the DID state is
     false.</description>
       <encodedData
     type="xs:hexBinary">7F901517A115800100A1028000820C496E7465726E616C43657274</
     encodedData>
     </invAspect>
     <invAspect>
       <refId>1378</refId>
       <annexAId>74</annexAId>
       <layer>GCI</layer>
       <layerName>GCI</layerName>
       <method>GCI instruction as defined by the calls and returns of ISO/IEC
     24727-2 clause 6.1 Service access layer API.</method>
       <invocationType>CALL</invocationType>
       <description>Convert the SAL invocation into a GCI APDU and send the APDU
     to the smartcard using the transmit layer in
          the IFD Proxy.</description>
       <encodedData xsi:type="xs:string"
     xmlns:xs="http://www.w3.org/2001/XMLSchema"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
     Service access layer API.</encodedData>
     </invAspect>
     <invAspect>
       <refId>1379</refId>
       <annexAId>74</annexAId>
       <layer>IFD</layer>
       <layerName>IFD Proxy</layerName>
       <method>transmit</method>
       <invocationType>CALL</invocationType>
       <description>Transmit the command APDU from the GCI layer to the IFD
     layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1380</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1381</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1382</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1383</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
```

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```
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1384</refId>
  <annexAId>74</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1385</refId>
  <annexAId>74</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1386</refId>
  <annexAId>74</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1387</refId>
  <annexAId>74</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1388</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1389</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1390</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1391</refId>
  <annexAId>74</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1392</refId>
      <annexAId>74</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1393</refId>
      <annexAId>74</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1394</refId>
      <annexAId>74</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didGet</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the Internal DID.
    Ensure the DID state is false.</description>
      <encodedData
    type="xs:hexBinary">7F90162CA122A020800C496E7465726E616C4365727481072881C117
    030003A2028000830100840082064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1395</refId>
      <annexAId>75</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didCreate</method>
      <invocationType>CALL</invocationType>
      <description>Create the Management external DID. First create the DIDs
    then restrict the DID modification permissions.
```

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```
      The modification access rules refer to the Internal and External DIDs.
One of these may not have yet been created.</description>
  <encodedData
type="xs:hexBinary">7F90138201C8A18201C480010081104D616E6745787465726E616C43
65727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D
43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
666572656E7469616C4964656E74697479A10885064449444765746A2038101FF3027800D4372
7970746F67726170686963A111840F566572696679536967 6E6174757265A203820100302880
1444696666657265 6E7469616C4964656E74697479A10B85094449445570646174 65A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>1396</refId>
  <annexAId>75</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1397</refId>
  <annexAId>75</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1398</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1399</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1400</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1401</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1402</refId>
  <annexAId>75</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1403</refId>
  <annexAId>75</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1404</refId>
  <annexAId>75</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1405</refId>
  <annexAId>75</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1406</refId>
  <annexAId>75</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
```

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```
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1407</refId>
  <annexAId>75</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1408</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1409</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1410</refId>
  <annexAId>75</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>1411</refId>
        <annexAId>75</annexAId>
        <layer>TC</layer>
        <layerName>TC Proxy</layerName>
        <method>read</method>
        <invocationType>RETURN</invocationType>
        <description>The response, from the TC Agent, to the previous write. The
      payload is an XML message. The XML is the
            marshalled response object from the previous IFD
      response.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
            as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
      API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1412</refId>
        <annexAId>75</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
            as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
            structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1413</refId>
        <annexAId>75</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
            as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1414</refId>
        <annexAId>75</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>didCreate</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Create the Management
      external DID. First create the DIDs then
            restrict the DID modification permissions. The modification access
      rules refer to the Internal and External DIDs. One
```

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```
      of these may not have yet been created.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1415</refId>
  <annexAId>76</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Set the ACLModify access rule to first require authentication
of the internal and external management
      certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C80010081154449464645524 54E5449414C2D4944454E
54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>1416</refId>
  <annexAId>76</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1417</refId>
  <annexAId>76</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1418</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1419</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1420</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1421</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1422</refId>
  <annexAId>76</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1423</refId>
  <annexAId>76</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1424</refId>
  <annexAId>76</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1425</refId>
  <annexAId>76</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1426</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1427</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1428</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1429</refId>
  <annexAId>76</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1430</refId>
  <annexAId>76</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1431</refId>
      <annexAId>76</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1432</refId>
      <annexAId>76</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Set the ACLModify access
    rule to first require authentication of the
        internal and external management certificate DIDs.</description>
      <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1433</refId>
      <annexAId>77</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to modify Internal DID's ACLModify access rule. This
    attempt shall fail as the DID state has been
        cleared. Ensure that the state of a recreated DID is
    false.</description>
      <encodedData
    type="xs:hexBinary">7F901F7EA17C80010081154449464645524 54E5449414C2D4944454E
    54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
    0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0
    1980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
    </invAspect>
    <invAspect>
      <refId>1434</refId>
      <annexAId>77</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1435</refId>
  <annexAId>77</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1436</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1437</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1438</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1439</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1440</refId>
  <annexAId>77</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1441</refId>
  <annexAId>77</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1442</refId>
  <annexAId>77</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1443</refId>
  <annexAId>77</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1444</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1445</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1446</refId>
  <annexAId>77</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1447</refId>
      <annexAId>77</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1448</refId>
      <annexAId>77</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1449</refId>
      <annexAId>77</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1450</refId>
      <annexAId>77</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclModify</method>
```


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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to modify Internal
DID's ACLModify access rule. This attempt
     shall fail as the DID state has been cleared. Ensure that the state of
a recreated DID is false.</description>
  <encodedData
type="xs:hexBinary">7F90202682244150495F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>1451</refId>
  <annexAId>78</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to delete the A00000041000010001 card application.
Ensure that a card application can only be
     deleted from the alpha card application.</description>
  <encodedData
type="xs:hexBinary">7F8F6310A10E8001008109A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>1452</refId>
  <annexAId>78</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1453</refId>
  <annexAId>78</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1454</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1455</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1456</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1457</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1458</refId>
  <annexAId>78</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1459</refId>
  <annexAId>78</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1460</refId>
  <annexAId>78</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1461</refId>
  <annexAId>78</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1462</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1463</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1464</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1465</refId>
  <annexAId>78</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1466</refId>
  <annexAId>78</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1467</refId>
      <annexAId>78</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1468</refId>
      <annexAId>78</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to delete the
    A00000041000010001 card application. Ensure that
         a card application can only be deleted from the alpha card
    application.</description>
      <encodedData
    type="xs:hexBinary">7F8F6420821E4150495F505245524551554953495445 4F4E4F545F53
    4154495346494544</encodedData>
    </invAspect>
    <invAspect>
      <refId>1469</refId>
      <annexAId>79</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Connect to the Alpha card application. The following set of
    actions shall delete the Alpha application.</description>
      <encodedData
    type="xs:hexBinary">7F8F5749A147A042A11B8019687474703A2F2F736D61727463617264
    2D686F73742E6E65748318426C7565204946442052656164657220534E3234333241348401018
    8506E82881C11702810100</encodedData>
    </invAspect>
    <invAspect>
      <refId>1470</refId>
      <annexAId>79</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
```

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```
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1471</refId>
  <annexAId>79</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1472</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1473</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1474</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1475</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1476</refId>
  <annexAId>79</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1477</refId>
  <annexAId>79</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1478</refId>
  <annexAId>79</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
```

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```
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1479</refId>
  <annexAId>79</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1480</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1481</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1482</refId>
  <annexAId>79</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
      <description>Wait for the response, from the TC Agent, to the previous
    write.</description>
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1483</refId>
      <annexAId>79</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1484</refId>
      <annexAId>79</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1485</refId>
      <annexAId>79</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1486</refId>
      <annexAId>79</annexAId>
      <layer>SAL</layer>
```

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```
  <layerName>SAL</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the Alpha card
application. The following set of actions
      shall delete the Alpha application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1487</refId>
  <annexAId>80</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the A00000041000010001 card application. Ensure that a
card application with an existing
      connection can be deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F6310A10E8001018109A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>1488</refId>
  <annexAId>80</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1489</refId>
  <annexAId>80</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1490</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1491</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1492</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1493</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1494</refId>
  <annexAId>80</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1495</refId>
  <annexAId>80</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1496</refId>
  <annexAId>80</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1497</refId>
  <annexAId>80</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1498</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1499</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1500</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D32811968747 4703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1501</refId>
  <annexAId>80</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1502</refId>
  <annexAId>80</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1503</refId>
      <annexAId>80</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1504</refId>
      <annexAId>80</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the
    A00000041000010001 card application. Ensure that a card
         application with an existing connection can be deleted.</description>
      <encodedData
    type="xs:hexBinary">7F8F6312582234150495F5741524E494E475F434F4E4E454354494F4E
    5F444953434F4E4E4543544544</encodedData>
    </invAspect>
    <invAspect>
      <refId>1505</refId>
      <annexAId>81</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDelete</method>
      <invocationType>CALL</invocationType>
      <description>Delete the A00000041000020001 card application. Ensure that a
    card application that contains multiple
         DataSets can be deleted.</description>
      <encodedData
    type="xs:hexBinary">7F8F6310A10E8001018109A00000041000020001</encodedData>
    </invAspect>
    <invAspect>
      <refId>1506</refId>
      <annexAId>81</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
```

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```
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1507</refId>
  <annexAId>81</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1508</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1509</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1510</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1511</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1512</refId>
  <annexAId>81</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1513</refId>
  <annexAId>81</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1514</refId>
  <annexAId>81</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1515</refId>
  <annexAId>81</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1516</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1517</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1518</refId>
  <annexAId>81</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1519</refId>
      <annexAId>81</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1520</refId>
      <annexAId>81</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1521</refId>
      <annexAId>81</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1522</refId>
      <annexAId>81</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDelete</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Delete the
A00000041000020001 card application. Ensure that a card
     application that contains multiple DataSets can be
deleted.</description>
  <encodedData type="xs:hexBinary">7F8F640882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1523</refId>
  <annexAId>82</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to retrieve the A00000041000020001 card application
access rules. Ensure that the access rules
     for the deleted card application can not be retrieved.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>1524</refId>
  <annexAId>82</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1525</refId>
  <annexAId>82</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1526</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1527</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1528</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1529</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1530</refId>
  <annexAId>82</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1531</refId>
  <annexAId>82</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1532</refId>
  <annexAId>82</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1533</refId>
  <annexAId>82</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1534</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1535</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1536</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D32811968747470742F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1537</refId>
  <annexAId>82</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1538</refId>
  <annexAId>82</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1539</refId>
      <annexAId>82</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1540</refId>
      <annexAId>82</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>aclList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Attempt to retrieve the
    A00000041000020001 card application access
         rules. Ensure that the access rules for the deleted card application
    can not be retrieved.</description>
      <encodedData
    type="xs:hexBinary">7F901E1C821A4150495F4E414D45445F454E544954595F4E4F545F46
    4F554E44</encodedData>
    </invAspect>
    <invAspect>
      <refId>1541</refId>
      <annexAId>83</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
      <invocationType>CALL</invocationType>
      <description>Attempt to list the card applications using a connection to a
    deleted card application. Ensure the
         request shall fail as the connection was disconnected when the card
    application was deleted.</description>
      <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
    </invAspect>
    <invAspect>
      <refId>1542</refId>
      <annexAId>83</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1543</refId>
  <annexAId>83</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1544</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1545</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1546</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1547</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1548</refId>
  <annexAId>83</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1549</refId>
  <annexAId>83</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1550</refId>
  <annexAId>83</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1551</refId>
  <annexAId>83</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1552</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1553</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1554</refId>
  <annexAId>83</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
```

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```
      <encodedData
    type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
    1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
    </invAspect>
    <invAspect>
      <refId>1555</refId>
      <annexAId>83</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
         marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
         as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1556</refId>
      <annexAId>83</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1557</refId>
      <annexAId>83</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1558</refId>
      <annexAId>83</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to list the card
applications using a connection to a deleted
     card application. Ensure the request shall fail as the connection was
disconnected when the card application was
     deleted.</description>
  <encodedData
type="xs:hexBinary">7F8F601982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>1559</refId>
  <annexAId>84</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the list of card applications.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>1560</refId>
  <annexAId>84</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1561</refId>
  <annexAId>84</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1562</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1563</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1564</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646652D54432D53
657373696F6E49442D328100821C536D617274636172645369646652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1565</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1566</refId>
  <annexAId>84</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1567</refId>
  <annexAId>84</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1568</refId>
  <annexAId>84</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1569</refId>
  <annexAId>84</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1570</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
```

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```
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1571</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1572</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1573</refId>
  <annexAId>84</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1574</refId>
  <annexAId>84</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
```

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```
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
         as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
         structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1575</refId>
      <annexAId>84</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
         as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1576</refId>
      <annexAId>84</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationList</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Retrieve the list of card
    applications.</description>
      <encodedData
    type="xs:hexBinary">7F8F6014A10AA0080406E82881C1170282064150495F4F4B</encode
    dData>
    </invAspect>
    <invAspect>
      <refId>1577</refId>
      <annexAId>85</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>CALL</invocationType>
      <description>Delete the global AccessLog DID. Ensure that globl DIDs can
    be deleted.</description>
      <encodedData
    type="xs:hexBinary">7F901910A10E800101810941636365737 34C6F67</encodedData>
    </invAspect>
    <invAspect>
      <refId>1578</refId>
      <annexAId>85</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
         the IFD Proxy.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1579</refId>
  <annexAId>85</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1580</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1581</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1582</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1583</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1584</refId>
  <annexAId>85</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1585</refId>
  <annexAId>85</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1586</refId>
  <annexAId>85</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1587</refId>
  <annexAId>85</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1588</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1589</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1590</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
```

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```
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1591</refId>
  <annexAId>85</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1592</refId>
  <annexAId>85</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1593</refId>
  <annexAId>85</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the previous GCI instruction.
</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1594</refId>
  <annexAId>85</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didDelete</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Delete the global
AccessLog DID. Ensure that globl DIDs can be
      deleted.</description>
  <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1595</refId>
  <annexAId>86</annexAId>
  <layer>SAL</layer>
  <layerName>SAL</layerName>
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the global CHPIN DID.</description>
  <encodedData
type="xs:hexBinary">7F90190CA10A80010181054348504 94E</encodedData>
</invAspect>
<invAspect>
  <refId>1596</refId>
  <annexAId>86</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
      the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
      as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1597</refId>
  <annexAId>86</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1598</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1599</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1600</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D6172746361726453696465 2D54432D53
657373696F6E49442D328100821C536D6172746361726453696465 2D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1601</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmitted IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1602</refId>
  <annexAId>86</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>1603</refId>
  <annexAId>86</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1604</refId>
  <annexAId>86</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1605</refId>
  <annexAId>86</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1606</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1607</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1608</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1609</refId>
  <annexAId>86</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1610</refId>
  <annexAId>86</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
        as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
        structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1611</refId>
      <annexAId>86</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1612</refId>
      <annexAId>86</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the global CHPIN
    DID.</description>
      <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1613</refId>
      <annexAId>87</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>CALL</invocationType>
      <description>Delete the global InternalCert DID.</description>
      <encodedData
    type="xs:hexBinary">7F901913A111800101810C496E7465726E616C43657274</encodedD
    ata>
    </invAspect>
    <invAspect>
      <refId>1614</refId>
      <annexAId>87</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
```

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```
<invAspect>
  <refId>1615</refId>
  <annexAId>87</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1616</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1617</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1618</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1619</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1620</refId>
  <annexAId>87</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1621</refId>
  <annexAId>87</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1622</refId>
  <annexAId>87</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1623</refId>
```

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```
  <annexAId>87</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1624</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1625</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1626</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1627</refId>
  <annexAId>87</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
      <method>read</method>
      <invocationType>RETURN</invocationType>
      <description>The response, from the TC Agent, to the previous write. The
    payload is an XML message. The XML is the
          marshalled response object from the previous IFD
    response.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
          as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
    API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1628</refId>
      <annexAId>87</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous IFD layer call: Transmit the response APDU
    from the IFD layer to the GCI layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
          as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
    interface, and clause 6.3.1 Encoded IFD data
          structures.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1629</refId>
      <annexAId>87</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>RETURN</invocationType>
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
          as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1630</refId>
      <annexAId>87</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the global
    InternalCert DID.</description>
      <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1631</refId>
      <annexAId>88</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
```

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```
  <method>didDelete</method>
  <invocationType>CALL</invocationType>
  <description>Delete the global MangExternalCert DID.</description>
  <encodedData
type="xs:hexBinary">7F901917A11580010181104D616E6745787465726E616C43657274</
encodedData>
</invAspect>
<invAspect>
  <refId>1632</refId>
  <annexAId>88</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>CALL</invocationType>
  <description>Convert the SAL invocation into a GCI APDU and send the APDU
to the smartcard using the transmit layer in
     the IFD Proxy.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
     as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1633</refId>
  <annexAId>88</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1634</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1635</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1636</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645364652D54432D53
657373696F6E49442D328100821C536D617274636172645364652D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1637</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
     IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1638</refId>
  <annexAId>88</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1639</refId>
  <annexAId>88</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
```

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```
      layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1640</refId>
  <annexAId>88</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
      expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1641</refId>
  <annexAId>88</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1642</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1643</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1644</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D6172746361726425D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1645</refId>
  <annexAId>88</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
     as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1646</refId>
  <annexAId>88</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>Transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous IFD layer call: Transmit the response APDU
from the IFD layer to the GCI layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1647</refId>
  <annexAId>88</annexAId>
  <layer>GCI</layer>
  <layerName>GCI</layerName>
  <method>GCI instruction as defined by the calls and returns of ISO/IEC
24727-2 clause 6.1 Service access layer API.</method>
  <invocationType>RETURN</invocationType>
```

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```
      <description>Return of the previous GCI instruction.
</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1648</refId>
      <annexAId>88</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>didDelete</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Delete the globalj
    MangExternalCert DID.</description>
      <encodedData type="xs:hexBinary">7F901A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>1649</refId>
      <annexAId>89</annexAId>
      <layer>SAL</layer>
      <layerName>SAL</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>CALL</invocationType>
      <description>Post-condition: Disconnect from the Alpha card
    application.</description>
      <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
    </invAspect>
    <invAspect>
      <refId>1650</refId>
      <annexAId>89</annexAId>
      <layer>GCI</layer>
      <layerName>GCI</layerName>
      <method>GCI instruction as defined by the calls and returns of ISO/IEC
    24727-2 clause 6.1 Service access layer API.</method>
      <invocationType>CALL</invocationType>
      <description>Convert the SAL invocation into a GCI APDU and send the APDU
    to the smartcard using the transmit layer in
        the IFD Proxy.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
        as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
    Service access layer API.</encodedData>
    </invAspect>
    <invAspect>
      <refId>1651</refId>
      <annexAId>89</annexAId>
      <layer>IFD</layer>
      <layerName>IFD Proxy</layerName>
      <method>transmit</method>
      <invocationType>CALL</invocationType>
      <description>Transmit the command APDU from the GCI layer to the IFD
    layer.</description>
      <encodedData xsi:type="xs:string"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
```

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```
      as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1652</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
      from the previous IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1653</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1654</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1655</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
      IFD Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>1656</refId>
  <annexAId>89</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the GCI layer to the IFD
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
     structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1657</refId>
  <annexAId>89</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the command APDU from the the IFD layer to the
Smartcard. Normal APDUs are used between the IFD
     layer to the Smartcard. Command chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1658</refId>
  <annexAId>89</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitApdu</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the Smartcard to the IFD
layer. Response chaining may be required.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">On-card GCI
     expected data as defined by the calls and returns of ISO/IEC 24727-2
clause 6.1 Service access layer API.</encodedData>
</invAspect>
<invAspect>
  <refId>1659</refId>
  <annexAId>89</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>transmit</method>
  <invocationType>RETURN</invocationType>
  <description>Transmit the response APDU from the IFD layer to the GCI
layer.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
     as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
interface, and clause 6.3.1 Encoded IFD data
```

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```
      structures.</encodedData>
</invAspect>
<invAspect>
  <refId>1660</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
<invAspect>
  <refId>1661</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1662</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E7441707053696465 2D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1663</refId>
  <annexAId>89</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">TC expected data
      as defined ISO/IEC 24727-4 clause 6.4 Trusted Channel
API.</encodedData>
</invAspect>
```

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```
      <invAspect>
        <refId>1664</refId>
        <annexAId>89</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>transmit</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous IFD layer call: Transmit the response APDU
      from the IFD layer to the GCI layer.</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">IFD expected data
           as defined by the outputs of ISO/IEC 24727-4 clause 6.2 Generic card
      interface, and clause 6.3.1 Encoded IFD data
           structures.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1665</refId>
        <annexAId>89</annexAId>
        <layer>GCI</layer>
        <layerName>GCI</layerName>
        <method>GCI instruction as defined by the calls and returns of ISO/IEC
      24727-2 clause 6.1 Service access layer API.</method>
        <invocationType>RETURN</invocationType>
        <description>Return of the previous GCI instruction.
</description>
        <encodedData xsi:type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">GCI expected data
           as defined by the calls and returns of ISO/IEC 24727-2 clause 6.1
      Service access layer API.</encodedData>
      </invAspect>
      <invAspect>
        <refId>1666</refId>
        <annexAId>89</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>cardApplicationDisconnect</method>
        <invocationType>RETURN</invocationType>
        <description>Return of previous SAL Proxy call: Post-condition: Disconnect
      from the Alpha card application.</description>
        <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
      </invAspect>
      <invAspect>
        <refId>1667</refId>
        <annexAId>90</annexAId>
        <layer>SAL</layer>
        <layerName>SAL</layerName>
        <method>terminate</method>
        <invocationType>CALL</invocationType>
        <description>Terminate the SAL Proxy. This shall automatically invoke
      ReleaseContext on the IFDProxy.</description>
        <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
      </invAspect>
      <invAspect>
        <refId>1668</refId>
        <annexAId>90</annexAId>
        <layer>IFD</layer>
        <layerName>IFD Proxy</layerName>
        <method>releaseContext</method>
```

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```
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContext>

      <ContextHandle>00</ContextHandle>
     </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1669</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the IFD XML message from the TC Proxy to the TC
Agent. The XML is the marshalled call object
     from the previous IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E1A181DEA057801C436C69656E74417070536964652D5443
2D53657373696F6E49442D328119687474703A2F2F736D61727463617264642D686F73742E6E65
74821C436C69656E74417070536964652D54432D53657373696F6E49442D328181823C6E7332
3A52656C65617365436F6E7465787420786D6C6E733A6E73323D2275726E3A69736F3A737464
3A69736F2D6965633A32343732373A746563683A736368656D61223E0A202020203C436F6E74
65787448616E646C653E30303C2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C
65617365436F6E746578743E</encodedData>
</invAspect>
<invAspect>
  <refId>1670</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1671</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C42A140A03E801C536D617274636172645369646 52D54432D53
657373696F6E49442D328100821C536D617274636172645369646 52D54432D53657373696F6E
49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1672</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited IFD XML message from the TC Agent. The XML is
the marshalled call object from the previous
```

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```
      IFD Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081823C6E73323A52656C65617365436F6E7465
787420786D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732
373A746563683A736368656D61223E0A202020203C436F6E7465787448616E646C653E30303C
2F436F6E7465787448616E646C653E0A3C2F6E73323A52656C65617365436F6E746578743E82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1673</refId>
  <annexAId>90</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContext>

       <ContextHandle>00</ContextHandle>
      </ns2:ReleaseContext>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1674</refId>
  <annexAId>90</annexAId>
  <layer>IFD</layer>
  <layerName>IFD</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
      <ns2:ReleaseContextResponse>

       <Result>IFD_OK</Result>
      </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1675</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response, from the IFD layer, to the previous read. The
payload is an XML message. The XML is the
      marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3181CEA181CBA03E801C536D617274636172645369646452D5443
2D53657373696F6E49442D328100821C536D617274636172645369646452D54432D5365737369
6F6E49442D328181883C6E73323A52656C65617365436F6E7465787452657370 6F6E73652078
6D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D6965633A32343732373A7465
63683A736368656D61223E0A202020203C526573756C743E4946445F4F4B3C2F526573756C74
3E0A3C2F6E73323A52656C65617365436F6E7465787452657370 6F6E73653E</encodedData>
</invAspect>
<invAspect>
  <refId>1676</refId>
  <annexAId>90</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1677</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the TC Agent, to the previous
write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C5BA159A057801C436C69656E74417070536964652D54432D53
657373696F6E49442D328119687474703A2F2F736D617274636172642D686F73742E6E657482
1C436C69656E74417070536964652D54432D53657373696F6E49442D32</encodedData>
</invAspect>
<invAspect>
  <refId>1678</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the TC Agent, to the previous write. The
payload is an XML message. The XML is the
     marshalled response object from the previous IFD
response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081883C6E73323A52656C65617365436F6E7465
7874526573706F6E73652078D6C6E733A6E73323D2275726E3A69736F3A7374643A69736F2D
6965633A32343732373A746563683A736368656D61223E0A202020203C526573756C743E4946
445F4F4B3C2F5265737 C743E0A3C2F6E73323A52656C65617365436F6E7465787452657370
6F6E73653E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>1679</refId>
  <annexAId>90</annexAId>
  <layer>IFD</layer>
  <layerName>IFD Proxy</layerName>
  <method>releaseContext</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData>
     <ns2:ReleaseContextResponse>

      <Result>IFD_OK</Result>
     </ns2:ReleaseContextResponse>
  </encodedData>
</invAspect>
<invAspect>
  <refId>1680</refId>
  <annexAId>90</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
```

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```
    <invocationType>CALL</invocationType>
    <description>Close the TC from the client application host.</description>
    <encodedData
  type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E74417070536964652D54432D53
  657373696F6E49442D32821C436C69656E74417070536964652D54432D53657373696F6E4944
  2D32</encodedData>
  </invAspect>
  <invAspect>
    <refId>1681</refId>
    <annexAId>90</annexAId>
    <layer>TC</layer>
    <layerName>TC Proxy</layerName>
    <method>close</method>
    <invocationType>RETURN</invocationType>
    <description>Return of close the TC from the client application
  host.</description>
    <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>1682</refId>
    <annexAId>90</annexAId>
    <layer>SAL</layer>
    <layerName>SAL</layerName>
    <method>terminate</method>
    <invocationType>RETURN</invocationType>
    <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
  This shall automatically invoke
       ReleaseContext on the IFDProxy.</description>
    <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
  </invAspect>
  <invAspect>
    <refId>1683</refId>
    <annexAId>0</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>close</method>
    <invocationType>CALL</invocationType>
    <description>Close the trusted channel on the smartcard host
  side.</description>
    <encodedData
  type="xs:hexBinary">7F9F2742A140A03E801C536D617274636172645369646 52D54432D53
  657373696F6E49442D318100821C536D617274636172645369646 52D54432D53657373696F6E
  49442D31</encodedData>
  </invAspect>
  <invAspect>
    <refId>1684</refId>
    <annexAId>0</annexAId>
    <layer>TC</layer>
    <layerName>TC Agent</layerName>
    <method>close</method>
    <invocationType>RETURN</invocationType>
    <description>Close the trusted channel on the smartcard host
  side.</description>
    <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
  </invAspect>
</invAspectList>
```

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Annex D
(informative)

TLS implementation ICC-Resident stack expected component test inputs and outputs

All ASN.1 TLV encoded data enforces Destinguished Encoding Rules (DER).

The default pathsecurity shall be TLS 1.0.

D.1 Application management - alpha card-application data structure construction

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements TLS) as described in Annex A.1.1, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.1.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
     <invAspect>
       <refId>1</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>initialize</method>
       <invocationType>CALL</invocationType>
       <description>Initialise the SAL Proxy.</description>
       <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
     </invAspect>
     <invAspect>
       <refId>2</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>initialize</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Initialise the SAL
     Proxy.</description>
       <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>3</refId>
       <annexAId>2</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>cardApplicationConnect</method>
       <invocationType>CALL</invocationType>
       <description>Pre-condition: Connect to the Alpha card application. This
     shall first invoke connect on the IFDProxy. In
          turn connect shall be invoked on the IFD layer on the client side.
     After connect has completed, transmit on the
```

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```
      IFDProxy shall be invoked to transmit the CardApplicationConnect APDU
to the Alpha card application. The IFD Name
      shall need to be replaced with an actual reader name when comparing the
results to results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5727A125A020A1168014687474703A2F2F736D61727463617264
2E6E65748506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open a TLS connection to the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F9F231AA1188014687474703A2F2F736D6172746361726432E6E6574
8100</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>The response from the TLS open action.</description>
  <encodedData
type="xs:hexBinary">7F9F245EA154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3182064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318184A18181A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31812B7F8F5727A125A020A116
8014687474703A2F2F736D617274636172642E6E65748506E82881C11702810100</encodedD
ata>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D37A12D802B7F8F5727A125A020A1168014687474703A2F2F73
6D617274636172642E6E65748506E82881C1170281010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3153A151A03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D3181117F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D3181146874747 03A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1DA11380117F8F580DA10380010082064150495F4F4B820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the Alpha card application. This shall first
```

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```
      invoke connect on the IFDProxy. In turn connect shall be invoked on the
IFD layer on the client side. After connect
      has completed, transmit on the IFDProxy shall be invoked to transmit
the CardApplicationConnect APDU to the Alpha
      card application. The IFD Name shall need to be replaced with an actual
reader name when comparing the results to
      results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application access
rules. Ensure that all of the Alpha card
      application access rules are set to Always. For the purpose of this
scenario test the Alpha card application needs to
      be open.</description>
  <encodedData
type="xs:hexBinary">7F901D21A11F800100811043415244 2D4150504C49434154494F4EA2
088206E82881C11702</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F317DA17BA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181257F901D21A11F800100811043
4152442D4150504C49434154494F4EA2088206E82881C11702</encodedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D31A12780257F901D21A11F8001008110434152442D4150504C
49434154494F4EA2088206E82881C1170282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820412A182040EA03C801C536D617274636172645369646 52D
```

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```
54432D53657373696F6E49442D31821C536D617274636172645369646 52D54432D5365737369
6F6E49442D31818203CC7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666665726 56E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541
6374696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509
444944437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479
A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264417070
6C69636174696F6EA1178215436172644170706C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963654456C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E436172644170706C696361
74696F6E536572766963654465736372696265A2038101FF82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707 0536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707 0536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```


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```
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8203DCA18203D0808203CC7F901E8203C6A18203BAA08203B6
301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301F800D41
7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D656444617461
A10F830D446174615365744456C657465A2038101FF3021800D417574686F72697A6174696F
6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D4578656375746541637469 6F6EA2038101FF3028801444696666657265 6E7469
616C4964656E74697479A10B850944494443726561746 5A2038101FF302880144469666657265 72
656E7469616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F
6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101
FF302D800F436172644170706C69636174696F6EA1158213436172644170706C69636174696F
6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C6963
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4170706C69636174696F6EA1178215436172644170706C6963617469 6F6E437265617465A203
8101FF302F800F436172644170706C69636174696F6EA1178215436172644170706C69636174
696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170
706C69636174696F6E537461727453657373696F6EA2038101FF3034800F436172644170706C
69636174696F6EA11C821A436172644170706C6963617469 6F6E536572766963654C697374A2
038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170706C696361
74696F6E536572766963654C6F6164A2038101FF303800F436172644170706C69636174696F
6EA11E821C436172644170706C69636174696F6E536572766963654372656 17465A2038101FF
3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E
536572766936544656C657465A2038101FF3038800F436172644170706C69636174696F6EA1
20821E436172644170706C69636174696F6E53657276696365446573637269626 5A2038101FF
82064150495F4F4B82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application access rules.
     Ensure that all of the Alpha card application access rules are set to
Always. For the purpose of this scenario test
     the Alpha card application needs to be open.</description>
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541
6374696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509
444944437265617465A2038101FF302880144469666657265 6E7469616C4964656E74697479
A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
```


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6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
1543617264417070 6C69636174696F6E437265617465A2038101FF302F800F43617264417070
6C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963654456C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E436172644170706C696361
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</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application DID list
of global DIDs. Ensure that the DID list is empty.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3181114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F901105A103800100</enco
dedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F901105A1038001008206415049F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3152A150A03C801C536D617274636172645369646652D54432D53
```

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```
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D3181107F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F90120CA102A00082064150495F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application DID list of global DIDs. Ensure
     that the DID list is empty.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application data set
list. Ensure that the data set list is empty.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E744170705369644652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E744170705369644652D54432D53657373696F6E49442D3181097F8F7105A103800100</enco
dedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F7105A10380010082064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
```

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```
  <refId>46</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3152A150A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D3181107F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F8F720CA102A00082064150495F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application data set list.
     Ensure that the data set list is empty.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the internal certificate DID. The internal certificate
DID is used to verify that this is a valid
     smartcard. First create the DIDs then restrict the DID modification
permissions. The modification access rules refer
     to the Internal and External DIDs. One of these may not have yet been
created. This DID is actually a Simple
     Assertion DID, not an Client Application Asymmetric Internal
Authentication DID. This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F90138201C4A18201C0800100810C496E7465726E616C4365727482
072881C117030003A3028000A482019E301C800D43727970746F67726170686963A106840453
69676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A203
8101FF3020800D43727970746F67726170686963A10A840844656369706865 72A20382010030
20800D43727970746F67726170686963A10A8408456E636970686572A2038201003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726
5E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F
67726170686963A111840F566572696679536967 6E6174757265A203820100302880144469 66
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666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101FF302980
0D43727970746F6772617068696 3A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F4449444417574686 5
6E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820226A1820222A052801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D3181146874747 03A2F2F736D6172746361726 42E6E6574821C
436C69656E7441707053696465 2D54432D53657373696F6E49442D31818201CA7F90138201C4
A18201C0800100810C496E7465726E616C43657274820728 81C117030003A3028000A482019E
301C800D43727970746F6772617068696 3A1068404536967 6EA03820100301F800D41757468
6F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D43727970746F677261
70686963A10A8408446563697068657 2A2038201003020800D43727970746F67726170686963
A10A8408456E636970686572A2038201003021800D417574686F72697A6174696F6EA10B8609
41434C4D6F64696679A2038101FF3021800D43727970746F6772617068696 3A10B8409476574
52616E646F6DA2038201003025801444696666657 2656E7469616C4964656E74697479A10885
06444944476574A2038101FF3027800D43727970746F6772617068696 3A111840F5665726966
795369676E6174757265A2038201003028801444696666657 2656E7469616C4964656E746974
79A10B85094449445570646174 65A2038101FF3029800D43727970746F6772617068696 3A113
84115665726966794365727469666963617465A203820100302E80144469666666572656E7469
616C4964656E74697479A111850F4449444175746865 6E746963617465A2038101FF</encode
dData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D6172746361726453696465 2D54432D53
657373696F6E49442D31821C536D6172746361726453696465 2D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201DAA18201CE808201CA7F90138201C4A18201C080010081
0C496E7465726E616C4365727482072881C117030003A3028000A482019E301C800D43727970
746F67726170686963A10684045369676EA203820100301F800D417574686F72697A6174696F
6EA109860741434C4C697374A2038101FF3020800D43727970746F67726170686963A10A8408
4465636970686572A2038201003020800D43727970746F67726170686963A10A8408456E6369
70686572A2038201003021800D417574686F72697A6174696F6EA10B860941434C4D6F646966
79A2038101FF3021800D43727970746F67726170686963A10B840947657452616E646F6DA203
8201003025801444696666665726 56E7469616C4964656E74697479A10885064449447 4765 74A2
038101FF3027800D43727970746F67726170686963A111840F5665726966795396 76E617475
7265A203820100302880144469666665726 56E7469616C4964656E74697479A10B8509444944
557064617465A2038101FF3029800D43727970746F67726170686963A113841566572696679
436572746966696361746 5A203820100302E80144469666665726 56E7469616C4964656E7469
7479A111850F444944417574686 56E746963617465A2038101FF82064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
```

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```
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D3181146874747 03A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90140882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the internal
certificate DID. The internal certificate DID is
      used to verify that this is a valid smartcard. First create the DIDs
then restrict the DID modification permissions.
      The modification access rules refer to the Internal and External DIDs.
One of these may not have yet been created.
```

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```
      This DID is actually a Simple Assertion DID, not an Client Application
Asymmetric Internal Authentication DID. This
      simplifies the test case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the management external certificate DID. The
management external certificate DID is used to
      provide an external party with full privileges. First create the DIDs
then restrict the DID modification permissions.
      The modification access rules refer to the Internal and External DIDs.
This DID is actually a Simple Assertion DID,
      not an Client Application External Authenticate with Certificates DID.
This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F90138201C8A18201C480010081104D616E6745787465726E616C43
65727482072881C117030003A3028000A482019E301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686572A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D
43727970746F67726170686963A10B84094765745261 6E646F6DA203820100302580144469 66
666572656E7469616C4964656E74697479A10885064449444765 74A2038101FF3027800D4372
7970746F67726170686963A111840F566572696795369676E6174757265A203820100302880
144469666665726 56E7469616C4964656E74697479A10B85094449445570646174 65A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666665726 56E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182022AA1820226A052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D31818201CE7F90138201C8
A18201C480010081104D616E6745787465726E616C4365727482072881C117030003A3028000
A482019E301C800D43727970746F67726170686963A10684045369676EA203820100301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D4372797074
6F67726170686963A10A84084465636970686572A2038201003020800D43727970746F677261
70686963A10A8408456E636970686572A2038201003021800D417574686F72697A6174696F6E
A10B860941434C4D6F64696679A2038101FF3021800D43727970746F67726170686963A10B84
0947657452616E646F6DA203820100302580144469666665726 56E7469616C4964656E746974
79A10885064449444765 74A2038101FF3027800D43727970746F67726170686963A111840F56
6572696795369676E6174757265A2038201003028801444696666657265 6E7469616C496465
6E74697479A10B85094449445570646174 65A2038101FF3029800D43727970746F6772617068
6963A113841156657269667943657274696669636174 65A203820100302E8014446966666572
```

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```
656E7469616C4964656E74697479A111850F44494441757468656E746963617465A2038101FF
</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201DEA18201D2808201CE7F90138201C8A18201C480010081
104D616E6745787465726E616C4365727482072881C117030003A3028000A482019E301C800D
43727970746F67726170686963A10684045369676EA203820100301F800D417574686F72697A
6174696F6EA10B860741434C4C697374A2038101FF3020800D43727970746F67726170686963
A10A840844656369706865 72A2038201003020800D43727970746F67726170686963A10A8408
456E6369706865 72A2038201003021800D417574686F72697A6174696F6EA10B860941434C4D
6F64696679A2038101FF3021800D43727970746F67726170686963A10B840947657452616E64
6F6DA203820100302580144469666665726 56E7469616C4964656E74697479A1088506444944
476574A2038101FF3027800D43727970746F67726170686963A111840F566572696679536967
6E6174757265A203820100302880144469666665726 56E7469616C4964656E74697479A10B85
094449445570646174 65A2038101FF3029800D43727970746F67726170686963A11384115665
726966794365727469666963617465A203820100302E80144469666665726 56E7469616C4964
656E74697479A111850F44494441757468656E746963617465A2038101FF82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90140882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the management
external certificate DID. The management
     external certificate DID is used to provide an external party with full
privileges. First create the DIDs then
     restrict the DID modification permissions. The modification access
rules refer to the Internal and External DIDs.
     This DID is actually a Simple Assertion DID, not an Client Application
External Authenticate with Certificates DID.
     This simplifies the test case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the internal certificate
DID. Set the DIDUpdate access rule to first
     require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8186A1818380010081154449464664552454E5449414C2D4944
454E54495459A20E810C496E7465726E616C436572748314446966666572656E7469616C4964
656E74697479A40B8509444944557064617465A534A432A015800C496E7465726E616C436572
74A10281008201FFA01980104D616E6745787465726E616C43657274A1028100820100</enco
dedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E5A181E2A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D3181818B7F901F8186A1818380
0100811544494646455 2454E5449414C2D4944454E54495459A20E810C496E7465726E616C43
65727483144469666665726 56E7469616C4964656E74697479A40B85094449445570646174 65
A534A432A015800C496E7465726E616C43657274A10281008201FFA01980104D616E67457874
65726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8199A1818E80818B7F901F8186A1818380010081154449464 6
4552454E5449414C2D4944454E54495459A20E810C496E7465726E616C436572748314446966
666572656E7469616C4964656E74697479A40B85094449445570646174 65A534A432A015800C
496E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C436572
74A1028100820100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the internal certificate DID. Set
     the DIDUpdate access rule to first require authentication of the
internal and external management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F9020088206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the internal certificate
DID. Set the ACLModify access rule to first
     require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C80010081154449464645 52454E5449414C2D4944454E
54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10281008201FFA0
1980104D616E6745787465726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181DCA181D9A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D318181827F901F7EA17C800100
```

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```
811544494646455245 4E5449414C2D4944454E54495459A20E810C496E7465726E616C436572
74830D417574686F72697A6174696F6EA40B860941434C4D6F64696679A534A432A015800C49
6E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274
A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The trahsmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081827F901F7EA17C8001008115444946464552
454E5449414C2D4944454E54495459A20E810C496E7465726E616C43657274830D417574686F
72697A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43
657274A10281008201FFA01980104D616E6745787465726E616C43657274A102810082010082
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>95</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the internal certificate DID. Set
      the ACLModify access rule to first require authentication of the
internal and external management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F9020088206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the management external
certificate DID. Set the DIDUpdate access
      rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F818AA1818780010081154449464645524 54E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C43657274831444696666657 2656E7469
616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E61
6C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A10281008201
00</encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E9A181E6A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D3181818F7F901F818AA1818780
0100811544494646455 2454E5449414C2D4944454E54495459A21281104D616E674578746572
6E616C43657274831444696666657 2656E7469616C4964656E74697479A40B85094449445570
64617465A534A432A015800C496E7465726E616C43657274A10281008201FFA01980104D616E
6745787465726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>103</refId>
```

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```
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D819DA189280818F7F901F818AA1818780010081154449464 6
4552454E5449414C2D4944454E54495459A21281104D616E6745787465726E616C4365727483
1444696666572656E7469616C4964656E74697479A40B85094449445570646174 65A534A432
A015800C496E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E61
6C43657274A10281008201008201064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the management external
     certificate DID. Set the DIDUpdate access rule to first require
authentication of the internal and external
     management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the management external
certificate DID. Set the ACLModify access
     rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8183A1818080010081154449464645524 54E5449414C2D4944
454E54495459A21281104D616E674578746572 6E616C43657274830D417574686F72697A6174
696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A102
81008201FFA01980104D616E674578746572 6E616C43657274A1028100820100</encodedDat
a>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E2A181DFA052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D318181887F901F8183A1818080
0100811544494646455 2454E5449414C2D4944454E54495459A21281104D616E674578746572
6E616C43657274830D417574686F72697A6174696F6EA40B860941434C4D6F64696679A534A4
32A015800C496E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E
616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081887F901F8183A1818080010081154449464 6
4552454E5449414C2D4944454E54495459A21281104D616E6745787465726E616C4365727483
0D417574686F72697A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E74
65726E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A102
810082010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>124</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the management external
     certificate DID. Set the ACLModify access rule to first require
authentication of the internal and external
     management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Card Holder PIN DID. The Card Holder is required
to enter a PIN to authenticate this DID. This
     DID is actually a Simple Assertion DID, not an Client-Application
Secure PIN Compare Authentication DID. This
     simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382021FA18202
1B8001008105434850494E82072881C1170300
03A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA2038201
00301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D
43727970746F67726170686963A10A84084656369706865 72A2038201003020800D43727970
746F67726170686963A10A84084566369706865 72A2038201003021800D43727970746F6772
6170686963A10B84094765745266 6E646F6DA203820100302580144469666665726 56E746961
6C4964656E74697479A10885064449444765 74A2038101FF3027800D43727970746F67726170
686963A111840F5665726966795369676E6174757265A2038201003029800D43727970746F67
726170686963A113841156657269667943657274696669636174 65A203820100302E80144469
66666572656E746961 4964656E74697479A111850F4449444175746865 6E746963617465A2
038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432
A015800C496E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E61
6C43657274A1028100820100305980144469666665726 56E7469616C4964656E74697479A10B
85094449445706461746 5A234A432A015800C496E7465726E616C43657274A10281008201FF
A01980104D616E6745787465726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820281A182027DA052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E7441707053696465 2D54432D53657373696F6E49442D31818202257F901382021F
A182021B8001008105434850494E82072881C117030003A3028000A4820200301C800D437279
70746F67726170686963A10684045369676EA203820100301F800D417574686F72697A617469
6F6EA109860741434C4C697374A2038101FF3020800D43727970746F67726170686963A10A84
```

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```
0844656369706865 72A2038201003020800D43727970746F67726170686963A10A8408456E63
6970686572A2038201003021800D43727970746F67726170686963A10B840947657452616E64
6F6DA203820100302580144469666665726 56E7469616C4964656E74697479A1088506444944
476574A2038101FF3027800D43727970746F67726170686963A111840F566572696679536967
6E6174757265A2038201003029800D43727970746F67726170686963A1138411566572696679
436572746966696361746 5A203820100302E80144469666665726 56E7469616C4964656E7469
7479A111850F44494441757468656E746963617465A2038101FF3052800D417574686F72697A
6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274
A10281008201FFA01980104D616E6745787465726E616C43657274A1028100820100305980 14
446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A234A432A0
15800C496E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C
43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820235A1820229808202257F901382021FA182021B80010081
05434850494E82072881C117030003A3028000A4820200301C800D43727970746F6772617068
6963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA10986074143
4C4C697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865
72A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A20382
01003021800D43727970746F67726170686963A10B840947657452616E646F6DA20382010030
258014446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF
3027800D43727970746F67726170686963A111840F566572696679536967 6E6174757265A203
8201003029800D43727970746F67726170686963A1138411566572696679436572746966696963
617465A203820100302E80144469666665726 56E7469616C4964656E74697479A111850F4449
4441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B86
0941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10281008201FFA0
1980104D616E6745787465726E616C43657274A1028100820100305980144469666666572656E
```

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```
7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E746572
6E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A1028100
820100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
```

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```
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90140882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Card Holder PIN
DID. The Card Holder is required to enter a
     PIN to authenticate this DID. This DID is actually a Simple Assertion
DID, not an Client-Application Secure PIN
     Compare Authentication DID. This simplifies the test
case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the access log DID. This shall enable logging across
all non-alpha card applications. Before
     authenticating this DID require internal and CHPIN DID
authentication.</description>
  <encodedData
type="xs:hexBinary">7F9013820249A18202458001008109416363657373 4C6F6782072881
C117030003A3028000A4820226301C800D43727970746F67726170686963A10684045369676E
A203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF
3020800D43727970746F67726170686963A10A840844656369706865 72A2038201003020800D
43727970746F67726170686963A10A8408456E636970686572A2038201003021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726 5
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```
6E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D43727970746F
67726170686963A111840F5665726966795369676E6174757265A2038201003029800D437279
70746F67726170686963A113841156657269667943657274696669636361746 5A2038201003052
800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E
7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274A1
028100820100305480144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A229A427A015800C496E7465726E616C43657274A10281008201FF
A00E8005434850494EA1028100820100305980144469666666572656E7469616C4964656E7469
7479A10B85094449445570646174 65A234A432A015800C496E7465726E616C43657274A10281
008201FFA01980104D616E6745787465726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318202ABA18202A7A05280 1C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D318182024F7F9013820249
A1820245800100810941636365737 34C6F6782072881C117030003A3028000A4820226301C80
0D43727970746F6772617068696 3A10684045359676EA203820100301F800D417574686F7269
7A6174696F6EA109860741434C4C697374A2038101FF3020800D43727970746F677261706869
63A10A840844656369706865 72A2038201003020800D43727970746F67726170686963A10A84
08456E636970686572A2038201003021800D43727970746F67726170686963A10B8409476574
52616E646F6DA2038201003025801446966666572656E7469616C4964656E74697479A10885
06444944476574A2038101FF3027800D43727970746F67726170686963A111840F5665726966
795369676E6174757265A2038201003029800D43727970746F67726170686963A11384115665
726966794365727469666696361 7465A2038201003052800D417574686F72697A6174696F6EA1
0B860941434C4D6F6469679A234A432A015800C496E7465726E616C43657274A10281008201
FFA01980104D616E6745787465726E616C43657274A1028100820100305480144469666666572
656E7469616C4964656E74697479A111850F4449444175746865 6E746963617465A229A427A0
15800C496E7465726E616C43657274A10281008201FFA00E8005434850494EA1028100820100
3059801446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A2
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726E616C43657274A1028100820100</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```


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```
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82025FA18202538082024F7F9013820249A18202458001008 1
094163636573734C6F6782072881C117030003A3028000A4820226301C800D43727970746F67
726170686963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF3020800D43727970746F6772617068696 3A10A8408446563
6970686572A2038201003020800D43727970746F6772617068696 3A10A8408456E6369706865
72A2038201003021800D43727970746F6772617068696 3A10B8409457452616E646F6DA203
8201003025801444696666657265 6E7469616C4964656E7469749A1088506444944476574A2
038101FF3027800D43727970746F6772617068696 3A111840F5665726966795369676E617475
7265A2038201003029800D43727970746F6772617068696 3A1138411566572696679436572 74
69666963617465A2038201003052800D417574686F72697A6174696F6EA10B860941434C4D6F
64696679A234A432A015800C496E7465726E616C43657274A10281008201FFA01980104D616E
6745787465726E616C43657274A1028100820100305480144469666665726 56E7469616C4964
656E74697479A111850F4449444175746865 6E74963617465A229A427A015800C496E746572
6E616C43657274A10281008201FFA00E800543850494EA1028100820100305980144469666 6
6572656E7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C49
6E7465726E616C43657274A10281008201FFA01980104D616E6745787465726E616C43657274
A1028100820100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
```


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```
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90140882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>13</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the access log DID.
This shall enable logging across all
     non-alpha card applications. Before authenticating this DID require
internal and CHPIN DID authentication.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the Alpha card application access
rules. Ensure that these access rules have not
     changed. Ensure the permissions on the Alpha card are all set to
Always.</description>
  <encodedData
type="xs:hexBinary">7F901D21A11F800100811043415244D4150504C49434154494F4EA2
088206E82881C11702</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31VDA17BA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3181146874747 03A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181257F901D21A11F800100811043
4152442D4150504C49434154494F4EA2088206E82881C11702</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D31A12780257F901D21A11F8001008110434152442D4150504C
49434154494F4EA2088206E82881C1170282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820412A182040EA03C801C536D617274636172645369646 52D
```

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54432D53657373696F6E49442D31821C536D617274636172645369646 52D54432D5365737369
6F6E49442D31818203CC7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D44617461536574446 56C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541
6374696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509
444944437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479
A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C6963617469 6F6EA11782
154361726441707 06C69636174696F6E437265617465A2038101FF302F800F4361726441707 0
6C69636174696F6EA1178215436172644170706C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B436172644170706C6963617469 6F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C6963617469 6F6EA11C821A436172
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706C69636174696F6EA11C821A436172644170706C6963617469 6F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963654465C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E436172644170706C696361
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</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>

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```
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8203DCA18203D0808203CC7F901E8203C6A18203BAA08203B6
301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301F800D41
7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D656444617461
A10F830D446174615365744 4656C657465A2038101FF3021800D417574686F72697A6174696F
6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D4578656375746541637469 6F6EA2038101FF3028801444696666657265 6E7469
616C4964656E74697479A10B85094449444372656 7465A2038101FF3028801444696666657265
656E7469616C4964656E74697479A10B850944494444656C657465A2038101FF302B800A436F
6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101
FF302D800F436172644170706C69636174696F6EA1158213436172644170706C69636174696F
6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B811943617264417070 6C6963
6174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B8119
436172644170706C69636174696F6E456E6453657373696F6EA2038101FF302F800F43617264
4170706C69636174696F6EA1178215436172644170706C69636174696F6E437265617465A203
8101FF302F800F436172644170706C69636174696F6EA11782154361726441707 06C69636174
696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170
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74696F6E536572766963654C6F6164A2038101FF3036800F436172644170706C69636174696F
6EA11E821C436172644170706C69636174696F6E536572766963654372656 17465A2038101FF
3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E
536572766936544656C657465A2038101FF3038800F436172644170706C69636174696F6EA1
20821E436172644170706C69636174696F6E536572766936544657363726965A2038101FF
82064150495F4F4B82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the Alpha card application access rules.
      Ensure that these access rules have not changed. Ensure the permissions
on the Alpha card are all set to Always.</description>
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666657265 6E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541
6374696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509
4449444372656 7465A2038101FF3028801444696666657265 6E7469616C4964656E74697479
A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B811943617264417070 6C6963174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B811943617264417070 6C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
```

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```
1543617264417070 6C69636174696F6E437265617465A2038101FF302F800F43617264417070
6C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963654465 6C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E436172644170706C696361
74696F6E536572766963654465736372696265A2038101FF82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the Alpha card application DID list
of global DIDs. Ensure that the DID list contains the newly
     created DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E74417070536964652D54432D53
657373696F6E49442D3181146874747 03A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181097F901105A103800100</enco
dedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F901105A1038001008206 4150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F318185A18182A03C801C536D617274636172645369646 52D5443
```

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```
2D53657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E
49442D3181427F90123EA134A0321A05434850494E1A094163636573734C6F671A0C496E7465
726E616C436572741A104D616E6745787465726E616C43657274820641504954F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D4EA14480427F90123EA134A0321A05434850494E1A09416363
6573734C6F671A0C496E7465726E616C436572741A104D616E6745787465726E616C43657274
820641504954F4F4B82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the Alpha card application DID list of global DIDs. Ensure
     that the DID list contains the newly created DIDs.</description>
  <encodedData
type="xs:hexBinary">7F90123EA134A0321A05434850494E1A094163636573734C6F671A0C
496E7465726E616C436572741A104D616E6745787465726E616C43657274820641504954F4F4B
</encodedData>
</invAspect>
```


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```
<invAspect>
  <refId>173</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the Alpha card application data set
list. Ensure that the data set list is
     empty.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>174</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181097F8F7105A103800100</enco
dedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 4652D54432D53
657373696F6E49442D31821C536D617274636172645369646 4652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
```

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```
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F7105A10380010082064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3152A150A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D3181107F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>182</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F8F720CA102A00082064150495F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the Alpha card application data set list.
     Ensure that the data set list is empty.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>185</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the Alpha card application.
Transmit on the IFDProxy shall be invoked to
     transmit the CardApplicationDisconnect APDU to the Alpha card
application. After transmit has completed, disconnect
     shall be invoked on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181097F8F5905A103800100</enco
dedData>
</invAspect>
<invAspect>
  <refId>187</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F5905A10380010082064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
```

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```
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>195</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
```


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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F5A0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the Alpha card application. Transmit
     on the IFDProxy shall be invoked to transmit the
CardApplicationDisconnect APDU to the Alpha card application. After
     transmit has completed, disconnect shall be invoked on the
IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>terminate</method>
  <invocationType>CALL</invocationType>
  <description>Terminate the SAL Proxy. This shall automatically invoke
ReleaseContext on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>CALL</invocationType>
  <description></description>
  <encodedData
type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D31821C436C69656E7441707053696465 2D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>close</method>
  <invocationType>RETURN</invocationType>
  <description></description>
  <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
</invAspect>
```

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```
    <invAspect>
      <refId>200</refId>
      <annexAId>18</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>terminate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
    This shall automatically invoke
         ReleaseContext on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

D.2 Application management - first application data structure construction

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements TLS) as described in Annex A.1.2, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.2.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
    <invAspect>
      <refId>1</refId>
      <annexAId>1</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>initialize</method>
      <invocationType>CALL</invocationType>
      <description>Initialise the SAL Proxy. This shall automatically invoke
    EstablishContext on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
    </invAspect>
    <invAspect>
      <refId>2</refId>
      <annexAId>1</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>initialize</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Initialise the SAL Proxy.
    This shall automatically invoke
         EstablishContext on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>3</refId>
      <annexAId>2</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>cardApplicationConnect</method>
      <invocationType>CALL</invocationType>
      <description>Pre-condition: Connect to the Alpha card application. This
    shall first invoke connect on the IFDProxy. In
         turn connect shall be invoked on the IFD layer on the client side.
    After connect has completed, transmit on the
```

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```
      IFDProxy shall be invoked to transmit the CardApplicationConnect APDU
to the Alpha card application. The IFD Name
      shall need to be replaced with an actual reader name when comparing the
results to results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F5727A125A020A1168014687474703A2F2F736D61727463617264
2E6E65748506E82881C11702810100</encodedData>
</invAspect>
<invAspect>
  <refId>4</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>CALL</invocationType>
  <description>Open a TLS connection to the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F9F231AA1188014687474703A2F2F736D6172746361726432E6E6574
8100</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>The response from the TLS open action.</description>
  <encodedData
type="xs:hexBinary">7F9F245EA154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3182064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318184A18181A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31812B7F8F5727A125A020A116
8014687474703A2F2F736D617274636172642E6E65748506E82881C11702810100</encodedD
ata>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D37A12D802B7F8F5727A125A020A1168014687474703A2F2F73
6D617274636172642E6E65748506E82881C1170281010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3153A151A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D3181117F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3181146874747053A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1DA11380117F8F580DA10380010082064150495F4F4B820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the Alpha card application. This shall first
```

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```
      invoke connect on the IFDProxy. In turn connect shall be invoked on the
IFD layer on the client side. After connect
      has completed, transmit on the IFDProxy shall be invoked to transmit
the CardApplicationConnect APDU to the Alpha
      card application. The IFD Name shall need to be replaced with an actual
reader name when comparing the results to
      results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application DID list
of global DIDs. Ensure the CardApplicationList only contains
      the Alpha card application.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D31811468747470 3A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F8F5F05A103800100</enco
dedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F5F05A10380010082064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F315AA158A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D3181187F8F6014A10AA0080406E82881C1170282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>25</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>26</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D24A11A80187F8F6014A10AA0080406E82881C1170282064150
495F4F4B82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application DID list of global DIDs. Ensure
     the CardApplicationList only contains the Alpha card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F6014A10AA0080406E82881C1170282064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Pre-condition: Ensure the A00000041000010001 card application
does not exist at the following location:
      IFD Name: Blue IFD Reader SN2432A4; Slot: 1. An error response
(API_INCORRECT_PARAMETER) is expected.</description>
  <encodedData
type="xs:hexBinary">7F8F572AA128A023A1168014687474703A2F2F736D61727463617264
2E6E65748509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318187A18184A052801C436C69656E744170705369646 4652D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E744170705369646 4652D54432D53657373696F6E49442D3181 E7F8F572AA128A023A116
8014687474703A2F2F736D617274636172642E6E65748509A00000041000010001810100</en
codedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
6573736 96F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D3AA130802E7F8F572AA128A023A1168014687474703A2F2F73
```

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```
6D617274636172642E6E65748509A000000410000100018101008206415049 5F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F315FA15DA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31811D7F8F581982174150495F494E434F52524543545F504152414D45544552</encodedD
ata>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
```

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```
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>39</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D29A11F801D7F8F581982174150495F494E434F52524543545F
504152414D4554455282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Ensure the
A00000041000010001 card application does not
     exist at the following location: IFD Name: Blue IFD Reader SN2432A4;
Slot: 1. An error response
     (API_INCORRECT_PARAMETER) is expected.</description>
  <encodedData
type="xs:hexBinary">7F8F581982174150495F494E434F52524543545F504152414D455445
52</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the A00000041000010001 application with all of the
access rules are set to always.</description>
  <encodedData
type="xs:hexBinary">7F8F618203CCA18203C88001008109A00000041000010001A28203B6
301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301F800D41
7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
617461A10F830D4461746153657443726561746 5A2038101FF302180094E616D656444617461
A10F830D446174615365744465C657465A2038101FF3021800D417574686F72697A6174696F
6EA10B860941434C4D6F64696679A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
```

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6F6EA10F820D4578656375746541637469 6F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B850944494443726561746 5A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B850944494444656C65746 5A2038101FF302B800A436F6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101 FF302D800F436172644170706C69636174696F6EA1158213436172644170706C69636174696F 6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B8119 436172644170706C69636174696F6E456E6453657373696F6EA2038101FF302F800F43617264 4170706C69636174696F6EA1178215436172644170706C69636174696F6E437265617465A203 8101FF302F800F436172644170706C69636174696F6EA1178215436172644170706C69636174 696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170 706C69636174696F6E537461727453657373696F6EA2038101FF3034800F436172644170706C 69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C697374A2 038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170706C696361 74696F6E536572766963654C6F6164A2038101FF3036800F436172644170706C69636174696F 6EA11E821C436172644170706C69636174696F6E536572766963654372656617465A2038101FF 3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E 536572766936544656C657465A2038101FF3038800F436172644170706C69636174696F6EA1 20821E436172644170706C69636174696F6E536572766936544657363726962 65A2038101FF
</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820042EA182042AA052801C436C69656E74417070536964652D 54432D53657373696F6E49442D31811468747470 3A2F2F736D617274636172642E6E6574821C 436C69656E74417070536964652D54432D53657373696F6E49442D31818203D27F8F618203CC A18203C88001008109A00000041000010001A28203B6301F80094E616D656444617461A10D83 0B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA1098607 41434C4C697374A2038101FF302180094E616D656444617461A10F830D446174615365744372 65617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C6574 65A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A203 8101FF3026801444696666657265 6E7469616C4964656E74697479A1098507444944 4C697374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541637469 696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B85094449 444372656174 65A2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B 850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA118811643617264 4170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C696361 74696F6EA1158213436172644170706C69636174696F6E4C697374A2038101FF302E800A436F 6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E656374A2 038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E45 6E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA117821543 6172644170706C69636174696F6E437265617465A2038101FF302F800F436172644170706C69 636174696F6EA1178215436172644170706C69636174696F6E44656C657465A2038101FF3030 800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E53746172745365 7373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A4361726441 70706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170706C 69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F6164A2 038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C696361 74696F6E536572766963654372656617465A2038101FF3036800F436172644170706C69636174 696F6EA11E821C436172644170706C69636174696F6E536572766936544656C657465A20381

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```
01FF3038800F436172644170706C69636174696F6EA120821E436172644170706C6963617469
6F6E536572766963654465736372696265A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D6172746361726453696465 2D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8203E2A18203D6808203D27F8F618203CCA18203C880010081
09A0000004100001000 A28203B6301F80094E616D656444617461A10D830B44617461536574
4C697374A2038101FF301F800D417574686F72697A6174696F6EA109860741434C4C697374A2
038101FF302180094E616D656444617461A10F830D4461746153657443726561746 5A2038101
FF302180094E616D656444617461A10F830D4461746153657444656C657465A2038101FF3021
800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3026801444
6966666572656E7469616C4964656E74697479A10985074449444C697374A2038101FF302780
0F436172644170706C69636174696F6EA10F820D4578656375746541637469 6F6EA2038101FF
3028801444696666657265 6E7469616C4964656E74697479A10B85094449444374265617465A2
038101FF3028801444696666657265 6E7469616C4964656E74697479A10B850944494444656C
657465A2038101FF302B800A436F6E6E656374696F6EA11881164361726441707 6C69636174
696F6E436F6E6E656374A2038101FF302D800F436172644170706C69636174696F6EA1158213
436172644170706C69636174696F6E4C697374A2038101FF302E800A436F6E6E656374696F6E
A11B81194361726441707 6C69636174696F6E446973636F6E6E656374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 6C69636174696F6E456E6453657373696F
6EA2038101FF302F800F436172644170706C69636174696F6EA1178215436172644170706C69
636174696F6E437265617465A2038101FF302F800F436172644170706C69636174696F6EA117
821543617264417070 6C69636174696F6E44656C657465A2038101FF3030800A436F6E6E6563
74696F6EA11D811B436172644170706C69636174696F6E537461727453657373696F6EA20381
01FF3034800F436172644170706C69636174696F6EA11C821A436172644170706C6963617469
6F6E536572766963654C697374A2038101FF3034800F436172644170706C69636174696F6EA1
1C821A436172644170706C69636174696F6E536572766963654C6F6164A2038101FF3036800F
436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E53657276
```


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```
6963654372656174 65A2038101FF3036800F436172644170706C69636174696F6EA11E821C43
6172644170706C69636174696F6E536572766963654656C657465A2038101FF3038800F4361
72644170706C69636174696F6EA120821E436172644170706C69636174696F6E536572766963
654465736372696265A2038101FF82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D6172746361726453696465 2D54432D53
657373696F6E49442D31821C536D6172746361726453696465 2D54432D53657373696F6E4944
2D31810C7F8F620882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>50</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F620882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>52</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the
A00000041000010001 application with all of the access rules
     are set to always.</description>
  <encodedData type="xs:hexBinary">7F8F620882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the newly created card application. Ensure that
multiple connections to different card
     applications are supported.</description>
  <encodedData
type="xs:hexBinary">7F8F572AA128A023A1168014687474703A2F2F736D61727463617264
2E6E65748509A000000410000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318187A18184A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31812E7F8F572AA128A023A116
8014687474703A2F2F736D617274636172642E6E65748509A0000004100001000181010 0</en
codedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D3AA130802E7F8F572AA128A023A1168014687474703A2F2F73
6D617274636172642E6E65748509A0000004100001000181010082064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3153A151A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D6172746361726453696465 2D54432D53657373696F6E4944
2D3181117F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>63</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1DA11380117F8F580DA10380010182064150495F4F4B820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the newly
created card application. Ensure that multiple
      connections to different card applications are supported.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
 <description>Retrieve the A00000041000010001 card application access rules.
Ensure that the ACL is the same as the one
      specified in the CardApplicationCreate call.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318180A17EA052801C436C69656E7441707053696465 2D54432D
53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C69
656E7441707053696465 2D54432D53657373696F6E49442D3181287F901D24A1228001018110
434152442D4150504C49434154494F4EA20B8209A00000041000010001</encodedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>7</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D34A12A80287F901D24A12280010181104341524 42D4150504C
49434154494F4EA20B8209A0000004100010001820 64150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
```

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```
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820412A182040EA03C801C536D617274636172645369646452D
54432D53657373696F6E49442D31821C536D617274636172645369646452D54432D5365737369
6F6E49442D31818203CC7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666665726 56E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F436172644170706C6963617469 6F6EA10F820D4578656375746541
6374696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509
444944437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479
A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E65637 4696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
1543617264417070 6C69636174696F6E437265617465A2038101FF302F800F43617264417070
6C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963654656C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E436172644170706C696361
74696F6E536572766963654465736372696265A2038101FF82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```


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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8203DCA18203D0808203CC7F901E8203C6A18203BAA08203B6
301F80094E616D656444617461A10D830B446174615365744C697374A2038101FF301F800D41
7574686F72697A6174696F6EA109860741434C4C697374A2038101FF302180094E616D656444
617461A10F830D44617461536574437265617465A2038101FF302180094E616D656444617461
A10F830D44617461536574446 56C657465A2038101FF3021800D417574686F72697A6174696F
6EA10B860941434C4D6F64696679A2038101FF30268014469666666572656E7469616C496465
6E74697479A10985074449444C697374A2038101FF3028800F436172644170706C6963617469
6F6EA10F820D4578656375746541637469 6F6EA2038101FF3028801444696666657265 6E7469
616C4964656E74697479A10B85094449444372656017465A2038101FF3028801444696666657 2
656E7469616C4964656E74697479A10B85094449444656C657465A2038101FF302B800A436F
6E6E656374696F6EA1188116436172644170706C69636174696F6E436F6E6E656374A2038101
FF302D800F436172644170706C69636174696F6EA1158213436172644170706C69636174696F
6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C6963
6174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B8119
436172644170706C69636174696F6E456E6453657373696F6EA2038101FF302F800F43617264
4170706C69636174696F6EA1178154361726441707 06C69636174696F6E437265617465A203
8101FF302F800F436172644170706C69636174696F6EA11782154361726441707 06C6963617
696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170
706C69636174696F6E537461727453657373696F6EA2038101FF3034800F436172644170706C
69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C697374A2
038101FF3034800F436172644170706C69636174696F6EA11C821A436172644170706C696361
74696F6E536572766963654C6F6164A2038101FF3036800F436172644170706C69636174696F
6EA11E821C436172644170706C69636174696F6E536572766963654372656174 65A2038101FF
3036800F436172644170706C69636174696F6EA11E821C436172644170706C69636174696F6E
536572766963654656C657465A2038101FF3038800F436172644170706C69636174696F6EA1
20821E436172644170706C69636174696F6E536572766963654465736372696265A2038101FF
82064150495F4F4B82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application access rules. Ensure
     that the ACL is the same as the one specified in the
CardApplicationCreate call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F901E8203C6A18203BAA08203B6301F80094E616D656444617461A1
0D830B446174615365744C697374A2038101FF301F800D417574686F72697A6174696F6EA109
860741434C4C697374A2038101FF302180094E616D656444617461A10F830D44617461536574
437265617465A2038101FF302180094E616D656444617461A10F830D4461746153657444656C
657465A2038101FF3021800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A2038101FF3026801444696666665726 56E7469616C4964656E74697479A10985074449444C69
7374A2038101FF3027800F436172644170706C69636174696F6EA10F820D4578656375746541
6374696F6EA2038101FF3028801444696666657265 6E7469616C4964656E74697479A10B8509
444944437265617465A2038101FF3028801444696666657265 6E7469616C4964656E74697479
A10B850944494444656C657465A2038101FF302B800A436F6E6E656374696F6EA11881164361
72644170706C69636174696F6E436F6E6E656374A2038101FF302D800F436172644170706C69
636174696F6EA11582134361726441707 06C69636174696F6E4C697374A2038101FF302E800A
436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973636F6E6E6563
74A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F
6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174696F6EA11782
154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43617264417070
6C69636174696F6EA11782154361726441707 06C69636174696F6E44656C657465A2038101FF
3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F6E5374617274
53657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA11C821A436172
644170706C69636174696F6E536572766963654C697374A2038101FF3034800F436172644170
706C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963654C6F61
64A2038101FF3036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654372656174 65A2038101FF3036800F436172644170706C6963
6174696F6EA11E821C436172644170706C69636174696F6E536572766963654456C657465A2
038101FF3038800F436172644170706C69636174696F6EA120821E436172644170706C696361
74696F6E536572766963654465736372696265A2038101FF82064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000010001 card application DID list.
Ensure that the DID list is empty. A newly
     created card application should have an empty DID list.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707 0536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707 0536964652D54432D53657373696F6E49442D3181097F901105A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>8</annexAId>
```


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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369644652D54432D53
657373696F6E49442D31821C536D617274636172645369644652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F901105A1038001018206415049 5F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
```

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```
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3152A150A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D3181107F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F90120CA102A00082064150495F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>8</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application DID list. Ensure that
     the DID list is empty. A newly created card application should have an
empty DID list.</description>
  <encodedData
type="xs:hexBinary">7F90120CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Retrieve the A00000041000010001 card application data set
list. Ensure that the data set list is empty. A
     newly created card application should have an empty data set
list.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E74417070536964652D54432D53
657373696F6E49442D3181146874747 03A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181097F8F7105A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F7105A1038001018206415 0495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>96</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3152A150A03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D3181107F8F720CA102A00082064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F8F720CA102A00082064150495F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Retrieve the
A00000041000010001 card application data set list. Ensure
     that the data set list is empty. A newly created card application
should have an empty data set list.</description>
  <encodedData
type="xs:hexBinary">7F8F720CA102A00082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Create the internal certificate DID. The internal certificate
DID is used to verify that this is a valid
     smartcard. First create the DIDs then restrict the DID modification
permissions. The modification access rules refer
     to the Internal and External DIDs. One of these may not have yet been
created. This DID is actually a Simple
     Assertion DID, not an Client Application Asymmetric Internal
Authentication DID. This simplifies the test case.
     Ensure that multiple DIDs with the same name can exist in multiple card
applications.</description>
  <encodedData
type="xs:hexBinary">7F90138201C4A18201C0800101810C496E7465726E616C4365727482
072881C117030003A3028000A482019E301C800D43727970746F6772617068696 3A106840453
69676EA203820100301F800D417574686F72697A6174696F6EA10986074143 4C4C697374A203
8101FF3020800D43727970746F67726170686963A10A840844656369706865 72A20382010030
20800D43727970746F67726170686963A10A8408456E636970686572A203820 1003021800D41
7574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D43727970
746F67726170686963A10B840947657452616E646F6DA203820100302580144469666665726 5
6E7469616C4964656E74697479A10885064449444476574A2038101FF3027800D43727970746F
67726170686963A111840F5665726966795369676E617475726 5A203820100302880144469666
666572656E7469616C4964656E74697479A10B85094449445570646174 65A2038101FF302980
0D43727970746F67726170686963A113841156657269667943657274696669636174 65A20382
0100302E80144469666666572656E7469616C4964656E74697479A111850F4449444175746865
6E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820226A1820222A052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D31818201CA7F90138201C4
A18201C0800101810C496E7465726E616C4365727482072881C117030003A3028000A482019E
301C800D43727970746F67726170686963A10684045369676EA203820100301F800D41757468
6F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D43727970746F677261
70686963A10A840844656369706865 72A20382010030208 00D43727970746F67726170686963
A10A8408456E636970686572A203820100302180 0D417574686F72697A6174696F6EA10B8609
41434C4D6F64696679A2038101FF3021800D43727970746F67726170686963A10B8409476574
52616E646F6DA203820100302580144469666666572656E7469616C4964656E74697479A10885
06444944476574A2038101FF3027800D43727970746F67726170686963A111840F5665726966
795369676E6174757265A203820100302880144469666666572656E7469616C4964656E746974
79A10B85094449445570646174 65A2038101FF3029800D43727970746F67726170686963A113
841156657269667943657274696669636174 65A203820100302E80144469666666572656E7469
616C4964656E74697479A111850F4449444175746856 8E746963617465A2038101FF</encode
dData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>105</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201DAA18201CE808201CA7F90138201C4A18201C080010181
0C496E7465726E616C4365727482072881C117030003A3028000A482019E301C800D43727970
746F67726170686963A10684045369676EA203820100301F800D417574686F72697A6174696F
6EA109860741434C4C697374A2038101FF3020800D43727970746F67726170686963A10A8408
4465636970686572A203820100302080 D43727970746F67726170686963A10A8408456E6369
70686572A2038201003021800D417574686F72697A6174696F6EA10B860941434C4D6F646966
79A2038101FF3021800D43727970746F67726170686963A10B840947657452616E646F6DA203
8201003025801444696666657265 6E7469616C4964656E74697479A1088506444944476574A2
038101FF3027800D43727970746F67726170686963A111840F566572696679536967 6E617475
7265A203820100302880144469666665726 56E7469616C4964656E74697479A10B8509444944
557064617465A2038101FF3029800D43727970746F67726170686963A1138411566572696679
436572746966696361746 5A203820100302E80144469666665726 56E7469616C4964656E7469
7479A111850F444944417574686 56E746963617465A2038101FF82064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>106</refId>
  <annexAId>10</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>107</refId>
  <annexAId>10</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>108</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>109</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>110</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>111</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
```

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```
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90140882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>112</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the internal
certificate DID. The internal certificate DID is
      used to verify that this is a valid smartcard. First create the DIDs
then restrict the DID modification permissions.
      The modification access rules refer to the Internal and External DIDs.
One of these may not have yet been created.
      This DID is actually a Simple Assertion DID, not an Client Application
Asymmetric Internal Authentication DID. This
      simplifies the test case. Ensure that multiple DIDs with the same name
can exist in multiple card applications.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>113</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the management external certificate DID. The
management external certificate DID is used to
      provide an external party with full privileges. First create the DIDs
then restrict the DID modification permissions.
      The modification access rules refer to the Internal and External DIDs.
This DID is actually a Simple Assertion DID,
      not an Client Application External Authenticate with Certificates DID.
This simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F90138201C8A18201C480010181104D616E6745787465726E616C43
6572748207288211117030003A3028000A482019E301C800D43727970746F67726170686963A1
0684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865726A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A2038101FF3021800D
43727970746F67726170686963A10B840947657452616E646F6DA203820100302580144469666
666572656E7469616C4964656E74697479A1088506444944476574A2038101FF3027800D4372
7970746F67726170686963A111840F566572696679536967 6E6174757265A203820100302880
1444696666657265 6E7469616C4964656E74697479A10B85094449445570646174 65A2038101
FF3029800D43727970746F67726170686963A113841156657269667943657274696669636174
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF</encodedData>
</invAspect>
<invAspect>
  <refId>114</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182022AA1820226A052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D31818201CE7F90138201C8
A18201C480010181104D616E6745787465726E616C4365727482072881C117030003A3028000
A482019E301C800D43727970746F67726170686963A10684045369676EA203820100301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D4372797074
6F67726170686963A10A840844656369706865 72A2038201003020800D43727970746F677261
70686963A10A8408456E636970686572A2038201003021800D417574686F72697A6174696F6E
A10B860941434C4D6F64696679A2038101FF3021800D43727970746F67726170686963A10B84
0947657452616E646F6DA203820100302580144469666666572656E7469616C4964656E746974
79A1088506444944476574A2038101FF3027800D43727970746F67726170686963A111840F56
65726966795369676E6174757265A203820100302880144469666666572656E7469616C496465
6E74697479A10B85094449445570646174 65A2038101FF3029800D43727970746F6772617068
6963A113841156657269667943657274696669636174 65A203820100302E8014446966666572
656E7469616C4964656E74697479A111850F444944417574686E746963617465A2038101FF
</encodedData>
</invAspect>
<invAspect>
  <refId>115</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>116</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D6172746361726453696 4652D54432D53
657373696F6E49442D31821C536D6172746361726453696 4652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>117</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8201DEA18201D2808201CE7F90138201C8A18201C480010181
104D616E6745787465726E616C4365727482072881C117030003A3028000A482019E301C800D
43727970746F67726170686963A10684045369676EA203820100301F800D417574686F72697A
```

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```
6174696F6EA109860741434C4C697374A2038101FF3020800D43727970746F67726170686963
A10A840844656369706865 72A2038201003020800D43727970746F67726170686963A10A8408
456E636970686572A2038201003021800D417574686F72697A6174696F6EA10B860941434C4D
6F64696679A2038101FF3021800D43727970746F67726170686963A10B840947657452616E64
6F6DA203820100302580144469666666572656E7469616C4964656E74697479A1088506444944
476574A2038101FF3027800D43727970746F67726170686963A111840F566572696679536967
6E6174757265A203820100302880144469666666572656E7469616C4964656E74697479A10B85
094449445570646174 65A2038101FF3029800D43727970746F67726170686963A11384115665
726966794365727469666963617465A203820100302E80144469666666572656E7469616C4964
656E74697479A111850F4449444175746865 6E746963617465A2038101FF82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>118</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>119</refId>
  <annexAId>11</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>120</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>121</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
```


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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>122</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E744170705369646 52D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>123</refId>
  <annexAId>11</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90140882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>124</refId>
  <annexAId>11</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the management
external certificate DID. The management
     external certificate DID is used to provide an external party with full
privileges. First create the DIDs then
     restrict the DID modification permissions. The modification access
rules refer to the Internal and External DIDs.
     This DID is actually a Simple Assertion DID, not an Client Application
External Authenticate with Certificates DID.
     This simplifies the test case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>125</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Modify the DIDUpdate access rule of the internal certificate
DID. Set the DID update access rule to first
     require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8186A1818380010181154449464645524 54E5449414C2D4944
454E54495459A20E810C496E7465726E616C436572748314446966666572656E7469616C4964
656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E616C436572
74A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</enco
dedData>
</invAspect>
<invAspect>
  <refId>126</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E5A181E2A052801C436C69656E7441707053696 4652D5443
2D53657373696F6E49442D318114687474703A2F2F736D6172746361726 42E6E6574821C436C
69656E7441707053696 4652D54432D53657373696F6E49442D3181818B7F901F8186A1818380
0101811544494646455 2454E5449414C2D4944454E54495459A20E810C496E7465726E616C43
65727483144469666665726 56E7469616C4964656E74697479A40B85094449445570646174 65
A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>127</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>128</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369 64652D54432D53
657373696F6E49442D31821C536D617274636172645369 64652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>129</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8199A1818E80818B7F901F8186A1818380010181154449464645
52454E5449414C2D4944454E54495459A20E810C496E7465726E616C436572748314446966
666572656E7469616C4964656E74697479A40B85094449445570646174657A534A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>130</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>131</refId>
  <annexAId>12</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>132</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>133</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>134</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E744170705369646452D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>135</refId>
  <annexAId>12</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>136</refId>
  <annexAId>12</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the internal certificate DID. Set
     the DID update access rule to first require authentication of the
internal and external management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>137</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the internal certificate
DID. Set the ACL Modify access rule to first
     require authentication of the internal and external management
certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F7EA17C80010181154449464645245 2E5449414C2D4944454E
54495459A20E810C496E7465726E616C43657274830D417574686F72697A6174696F6EA40B86
```

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```
0941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>138</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181DCA181D9A052801C436C69656E744170705369646526544
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31818187F901F7EA17C800101
8115444946464552454E5449414C2D4944454E54495459A20E810C496E7465726E616C436572
74830D417574686F72697A6174696F6EA40B860941434C4D6F64696679A534A432A015800C49
6E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274
A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>139</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>140</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646526544 2D53
65737369 6F6E49442D31821C536D617274636172645369646526544 2D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>141</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8190A181858081827F901F7EA17C800101811544494646455
454E5449414C2D4944454E54495459A20E810C496E7465726E616C43657274830D417574686F
72697A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43
```

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```
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF82
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>142</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>143</refId>
  <annexAId>13</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>144</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>145</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>146</refId>
  <annexAId>13</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>147</refId>
  <annexAId>13</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>148</refId>
  <annexAId>13</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the internal certificate DID. Set
     the ACL Modify access rule to first require authentication of the
internal and external management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>149</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDUpdate access rule of the management external
certificate DID. Set the DID update access
     rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F818AA1818780010181154449464645524 54E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C436572748314446966666572656E7469
616C4964656E74697479A40B85094449445570646174 65A534A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF</encodedData>
</invAspect>
<invAspect>
  <refId>150</refId>
  <annexAId>14</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E9A181E6A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D3181818F7F901F818AA1818780
0101811544494646455 2454E5449414C2D4944454E54495459A21281104D616E674578746572
6E616C436572748314446966666572656E7469616C4964656E74697479A40B85094449445570
64617465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E
6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>151</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>152</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>153</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D819DA1819280818F7F901F818AA1818780010181154449464 6
4552454E5449414C2D4944454E54495459A21281104D616E6745787465726E616C4365727483
1444696666572656E7469616C4964656E74697479A40B85094449445570 64617465A534A432
A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E61
6C43657274A10280008201FF82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>154</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
```

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```
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>155</refId>
  <annexAId>14</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>156</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>157</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>158</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>159</refId>
  <annexAId>14</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>160</refId>
  <annexAId>14</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDUpdate
access rule of the management external
     certificate DID. Set the DID update access rule to first require
authentication of the internal and external
     management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>161</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the management external
certificate DID. Set the ACL modify access
     rule to first require authentication of the internal and external
management certificate DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901F8183A1818080010181154449464645524 54E5449414C2D4944
454E54495459A21281104D616E6745787465726E616C43657274830D417574686F72697A6174
696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</encodedDat
a>
</invAspect>
<invAspect>
  <refId>162</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181E2A181DFA052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D318181887F901F8183A1818080
0101811544494646455 2454E5449414C2D4944454E54495459A21281104D616E674578746572
6E616C43657274830D417574686F72697A6174696F6EA40B860941434C4D6F64696679A534A4
32A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E
616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>163</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>164</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>165</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8196A1818B8081887F901F8183A1818080010181154449464 6
4552454E5449414C2D4944454E54495459A21281104D616E6745787465726E616C4365727483
0D417574686F72697A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E74
65726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102
80008201FF82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>166</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>167</refId>
  <annexAId>15</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>168</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F902008820641504 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>169</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>170</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>171</refId>
  <annexAId>15</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>172</refId>
  <annexAId>15</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the management external
     certificate DID. Set the ACL modify access rule to first require
authentication of the internal and external
     management certificate DIDs.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>173</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Card Holder PIN DID. The Card Holder is required
to enter a PIN to authenticate this DID. This
     DID is actually a Simple Assertion DID, not an Client-Application
Secure PIN Compare Authentication DID. This
     simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382021FA182021B8001018105434850494E82072881C1170300
03A3028000A4820200301C800D43727970746F67726170686963A10684045369676EA2038201
00301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D
43727970746F67726170686963A10A840844656369706865 72A2038201003020800D43727970
746F67726170686963A10A8408456E636970686572A2038201003021800D43727970746F6772
6170686963A10B840947657452616E646F6DA203820100302580144469666665726 56E746961
6C4964656E74697479A10885064449444765 74A2038101FF3027800D43727970746F67726170
686963A111840F566572696679536967 6E6174757265A2038201003029800D43727970746F67
726170686963A113841156657269667943657274696669636174 65A203820100302E80144469
66666572656E7469616C4964656E74697479A111850F4449444175746865 6E746963617465A2
038101FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432
A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E61
6C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E74697479A10B
85094449445570646174 65A234A432A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>174</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820281A182027DA052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D31818202257F901382021F
A182021B8001018105434850494E82072881C117030003A3028000A4820200301C800D437279
70746F67726170686963A10684045369676EA203820100301F800D417574686F72697A617469
6F6EA109860741434C4C697374A2038101FF3020800D43727970746F67726170686963A10A84
0844656369706865 72A2038201003020800D43727970746F67726170686963A10A8408456E63
6970686572A2038201003021800D43727970746F67726170686963A10B84094765745261 6E64
6F6DA203820100302580144469666666572656E7469616C4964656E74697479A1088506444944
476574A2038101FF3027800D43727970746F67726170686963A111840F566572696679536967
6E6174757265A2038201003029800D43727970746F67726170686963A113841156657269667 9
436572746966696361746 5A203820100302E80144469666665726 56E7469616C4964656E7469
7479A111850F4449444175746865 6E746963617465A2038101FF3052800D417574686F72697A
6174696F6EA10B860941434C4D6F64696679A234A432A0158000496E7465726E616C43657274
A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014
446966666572656E7469616C4964656E74697479A10B85094449445570646174 65A234A432A0
15800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C
43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>175</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>176</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>177</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820235A1820229808202257F901382021FA182021B80010181
05434850494E82072881C117030003A3028000A4820200301C800D43727970746F6772617068
6963A10684045369676EA203820100301F800D417574686F72697A6174696F6EA10986074143
4C4C697374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865
72A2038201003020800D43727970746F67726170686963A10A8408456E636970686572A20382
01003021800D43727970746F67726170686963A10B840947657452616E646F6DA20382010030
258014446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF
3027800D43727970746F67726170686963A111840F566572696679536967 6E6174757265A203
8201003029800D43727970746F67726170686963A113841156657269667943657 27469666963
617465A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4449
4441757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B86
0941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0
1980104D616E6745787465726E616C43657274A10280008201FF30598144469666666572656E
7469616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E746572
6E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1028000
8201FF82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>178</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>179</refId>
  <annexAId>16</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>180</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>181</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>182</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>183</refId>
  <annexAId>16</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90140882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>184</refId>
  <annexAId>16</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Card Holder PIN
DID. The Card Holder is required to enter a
     PIN to authenticate this DID. This DID is actually a Simple Assertion
DID, not an Client-Application Secure PIN
     Compare Authentication DID. This simplifies the test
case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>185</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Alpha External Certificate DID. This DID is
actually a Simple Assertion DID, not an Client
     Application External Authenticate with Certificates DID. This
simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382022BA18202278001018111416C70686145787465726E616C
4365727482072881C117030003A3028000A4820200301C800D43727970746F6772617068696 3
A10684045369676EA203820100301F800D417574686F72697A6174696F6EA109860741434C4C
697374A2038101FF3020800D43727970746F67726170686963A10A84084465636970686572A2
038201003020800D43727970746F67726170686963A10A8408456E636970686572A203820100
3021800D43727970746F67726170686963A10B840947657452616E646F6DA203820100302580
1444696666657265 6E7469616C4964656E74697479A10885064449444476574A2038101FF3027
800D43727970746F67726170686963A111840F5665726966795369676E6174757265A2038201
003029800D43727970746F67726170686963A113841156657269679436572746966963617 4
65A203820100302E80144469666666572656E7469616C4964656E74697479A111850F44494441
757468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B860941
434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF30598014446966666572656E7469
616C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E61
6C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FF</encodedData>
</invAspect>
<invAspect>
  <refId>186</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182028DA1820289A052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D31818202317F901382022B
A18202278001018111416C70686145787465726E616C4365727482072881C117030003A30280
00A4820200301C800D43727970746F67726170686963A10684045369676EA203820100301F80
0D417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D43727970
746F67726170686963A10A8408446563697 0686572A2038201003020800D43727970746F6772
6170686963A10A8408456E636970686572A2038201003021800D43727970746F677261706869
63A10B840947657452616E646F6DA203820100302580144469666666572656E7469616C496465
6E74697479A10885064449444476574A2038101FF3027800D43727970746F67726170686963A1
11840F5665726966795369676E6174757265A203820100302980 0D43727970746F6772617068
6963A113841156657269667943657274696669636174 65A203820100302E8014446966666572
656E7469616C4964656E74697479A111850F44494441757468656E746963617465A2038101FF
3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF30598014446966666572656E7469616C4964656E74697479A10B85094449
44557064617465A234A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>187</refId>
```

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```
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>188</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>189</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820241A8202358082023 17F901382022BA182022780010181
11416C70686145787465726E616C43657274820728 81C117030003A3028000A4820200301C80
0D43727970746F67726170686963A10684045369676EA203820100301F800D417574686F7269
7A6174696F6EA109860741434C4D697374A2038101FF3020800D43727970746F677261706869
63A10A840844656369706865 72A203820100302080 0D43727970746F67726170686963A10A84
08456E636970686572A203820100302180 0D43727970746F67726170686963A10B8409476574
52616E646F6DA203820100302580144469666666572656E7469616C4964656E74697479A10885
06444944476574A2038101FF3027800D43727970746F67726170686963A111840F5665726966
795369676E617475726 5A203820100302980 0D43727970746F67726170686963A11384115665
726966794365727469666963617465A203820100302E80144469666666572656E7469616C4964
656E74697479A111850F444944417574686 5E746963617465A2038101FF3052800D41757468
6F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
3059801444696666665726 56E7469616C4964656E74697479A10B85094449445570646174 65A2
34A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465
726E616C43657274A10280008201FF82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>190</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>191</refId>
  <annexAId>17</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>192</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>193</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>194</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
```


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```
  <refId>195</refId>
  <annexAId>17</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90140882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>196</refId>
  <annexAId>17</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Alpha External
Certificate DID. This DID is actually a
     Simple Assertion DID, not an Client Application External Authenticate
with Certificates DID. This simplifies the test
     case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>197</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the Beta External Certificate DID. This DID is
actually a Simple Assertion DID, not an Client
     Application External Authenticate with Certificates DID. This
simplifies the test case.</description>
  <encodedData
type="xs:hexBinary">7F901382022AA18202268001018110426574614578746572 6E616C43
65727482072881C117030003A3028000A4820200301C800D43727970746F67726170686963A1
06840453696768A203820100301F800D417574686F72697A6174696F6EA109860741434C4C69
7374A2038101FF3020800D43727970746F67726170686963A10A840844656369706865 72A203
8201003020800D43727970746F67726170686963A10A8408456E636970686572A20382010030
21800D43727970746F67726170686963A10B840947657452616E646F6DA20382010030258014
446966666572656E7469616C4964656E74697479A1088506444944476574A2038101FF302780
0D43727970746F67726170686963A111840F566572696679536967 6E6174757265A203820100
3029800D43727970746F67726170686963A113841156657269667943657274696666963617465
A203820100302E80144469666666572656E7469616C4964656E74697479A111850F4449444175
7468656E746963617465A2038101FF3052800D417574686F72697A6174696F6EA10B86094143
4C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FF3059801444696666657 2656E746961
6C4964656E74697479A10B85094449445570646174 65A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
</encodedData>
</invAspect>
<invAspect>
  <refId>198</refId>
  <annexAId>18</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182028CA1820288A052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D31818202307F901382022A
A1820226800101811042657461457874657265726E616C436572748207288 1C117030003A3028000
A4820200301C800D43727970746F6772617068696 3A10684045369676EA203820100301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF3020800D4372797074
6F6772617068696 3A10A840844656369706857 2A2038201003020800D43727970746F677261
70686963A10A8408456E636970686572A2038201003021800D43727970746F67726170686963
A10B840947657452616E646F6DA203820100302580144469666665726E7469616C4964656E
74697479A1088506444944476574A2038101FF3027800D43727970746F67726170686963A111
840F566572696679536967 6E6174757265A2038201003029800D43727970746F677261706869
63A113841156657269667943657274696669636174 65A2038201003 02E801444696666657265
6E7469616C4964656E74697479A111850F4449444175746865746963174 65A2038101FF30
52800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C49
6E7465726E616C43657274A10280008201FFA01980104D6E6E6745787465726E616C43657274
A10280008201FF3059801444696666657265 6E7469616C4964656E74697479A10B8509444944
557064617465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D
616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>199</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>200</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>201</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D820240A1820234808202307F901382022AA182022680010181
1042657461457874657265726E616C43657274820728881C117030003A3028000A4820200301C800D
43727970746F67726170686963A10684045369676EA203820100301F800D417574686F72697A
6174696F6EA109860741434C4C697374A2038101FF3020800D43727970746F67726170686963
A10A840844656369706865726A2038201003020800D43727970746F67726170686963A10A8408
456E636970686572A2038201003021800D43727970746F67726170686963A10B840947657452
616E646F6DA203820100302580144469666666572656E7469616C4964656E74697479A1088506
444944476574A2038101FF3027800D43727970746F67726170686963A111840F566572696679
5369676E6174757265A2038201003029800D43727970746F67726170686963A1138411566572
6966794365727469666963617465A203820100302E80144469666666572656E7469616C496465
6E74697479A111850F44494441757468656E746963617465A2038101FF3052800D417574686F
72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43
657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30
59801444696666665726 56E7469616C4964656E74697479A10B85094449445570646174 65A234
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726572
6E616C43657274A10280008201FF82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>202</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>203</refId>
  <annexAId>18</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>204</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>205</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>206</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>207</refId>
  <annexAId>18</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90140882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>208</refId>
  <annexAId>18</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the Beta External
Certificate DID. This DID is actually a
     Simple Assertion DID, not an Client Application External Authenticate
with Certificates DID. This simplifies the test
     case.</description>
  <encodedData type="xs:hexBinary">7F90140882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>209</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceList access rule of the
A00000041000010001 application. Remove the
     ability to list card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F58A15680010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001830F436172644170706C69636174696F6EA41C821A4361726441
70706C69636174696F6E536572766963654C697374A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>210</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181B5A181B2A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D6172746361726 42E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31815C7F901F58A15680010181
10434152442D4150504C49434154494F4EA20B8209A00000041000010001830F436172644170
706C69636174696F6E41C821A436172644170706C69636174696F6E536572766963654C6973
74A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>211</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>212</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>213</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D68A15E805C7F901F58A1568001018110434152442D4150504C
49434154494F4EA20B8209A00000041000010001830F436172644170706C69636174696F6EA4
1C821A436172644170706C69636174696F6E536572766963654C697374A50382010082064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>214</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>215</refId>
  <annexAId>19</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>216</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>217</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>218</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>219</refId>
  <annexAId>19</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F902008820641504 95F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>220</refId>
  <annexAId>19</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceList access rule of the
     A00000041000010001 application. Remove the ability to list card
applications services.</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>221</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceCreate access rule of the
A00000041000010001 application. Remove the
     ability to create card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F5AA1588001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000100018 30F436172644170706C69636174696F6EA41E821C4361726441
70706C69636174696F6E536572766963654372656174 5A503820100</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>222</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181B7A181B4A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31815E7F901F5AA15880010181
10434152442D4150504C49434154494F4EA20B8209A0000004100001000183 0F436172644170
706C69636174696F6EA41E821C436172644170706C69636174696F6E536572766963654372 65
617465A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>223</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>224</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>225</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D6AA160805E7F901F5AA1588001018110434152442D4150504C
49434154494F4EA20B8209A0000004100001000183 0F436172644170706C69636174696F6EA4
1E821C436172644170706C69636174696F6E536572766963654372 65617465A5038201008206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>226</refId>
  <annexAId>20</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>227</refId>
  <annexAId>20</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>228</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>229</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>230</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>231</refId>
  <annexAId>20</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F902008820641504 95F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>232</refId>
  <annexAId>20</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceCreate access rule of the
      A00000041000010001 application. Remove the ability to create card
applications services.</description>
  <encodedData type="xs:hexBinary">7F9020088206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>233</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceLoad access rule of the
A00000041000010001 application. Remove the
      ability to load card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F58A1568001018110434152442D4150504C49434154494F4EA2
058209A00000041000010001830F436172644170706C69636174696F6EA41C821A4361726441
70706C69636174696F6E536572766963654C6F6164A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>234</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181B5A181B2A052801C436C69656E7441707053696465 2D5443
```

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```
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E74417070536964652D54432D53657373696F6E49442D31815C7F901F58A15680010181
10434152442D4150504C49434154494F4EA20B8209A0000004100001000183 0F436172644170
706C69636174696F6EA41C821A436172644170706C69636174696F6E536572766963654C6F61
64A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>235</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>236</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D6172746361726453696465 2D54432D53
657373696F6E49442D31821C536D6172746361726453696465 2D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>237</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D68A15E805C7F901F58A1568001018110434152442D4150504C
49434154494F4EA20B8209A0000004100001000183 0F436172644170706C69636174696F6EA4
1C821A436172644170706C69636174696F6E536572766963654C6F6164A50382010082064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>238</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>239</refId>
  <annexAId>21</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>240</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>241</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>242</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>243</refId>
  <annexAId>21</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>244</refId>
  <annexAId>21</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceLoad access rule of the
      A00000041000010001 application. Remove the ability to load card
applications services.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>245</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceDelete access rule of the
A00000041000010001 application. Remove the
      ability to delete card applications services.</description>
  <encodedData
type="xs:hexBinary">7F901F5AA15880010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001830F436172644170706C69636174696F6EA41E821C4361726441
70706C69636174696F6E536572766936544656C657465A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>246</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181B7A181B4A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31815E7F901F5AA15880010181
10434152442D4150504C49434154494F4EA20B8209A00000041000010001830F436172644170
706C69636174696F6EA41E821C436172644170706C69636174696F6E536572766936544656C
657465A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>247</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>248</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D6172746361726453696465 2D54432D53
657373696F6E49442D31821C536D6172746361726453696465 2D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>249</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D6AA160805E7F901F5AA158800101811043415244 2D4150504C
49434154494F4EA20B8209A0000004100010001830F436172644170706C69636174696F6EA4
1E821C436172644170706C69636174696F6E536572766963654656C657465A5038201008206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>250</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>251</refId>
  <annexAId>22</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>252</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D536573736F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>253</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>254</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D3181114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>255</refId>
  <annexAId>22</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>256</refId>
  <annexAId>22</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceDelete access rule of the
     A00000041000010001 application. Remove the ability to delete card
applications services.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>257</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the CardApplicationServiceDescribe access rule of the
A00000041000010001 application. Remove the
     ability to describe card applications.</description>
  <encodedData
type="xs:hexBinary">7F901F5CA15A800101811043415244D4150504C49434154494F4EA2
0B8209A00000041000010001830F436172644170706C69636174696F6EA420821E4361726441
70706C69636174696F6E536572766963654465736372696265A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>258</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181B9A181B6A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D3181607F901F5CA15A80010181
10434152442D4150504C49434154494F4EA20B8209A00000041000010001830F436172644170
706C69636174696F6EA420821E436172644170706C69636174696F6E536572766963654465736
372696265A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>259</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>260</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>261</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D6CA16280607F901F5CA15A800101811043415442D4150504C
49434154494F4EA20B8209A0000004100001000183OF4361726441707O6C69636174696F6EA4
20821E4361726441707O6C69636174696F6E536572766963654465736372696265A503820100
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>262</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>263</refId>
  <annexAId>23</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>264</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>265</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>266</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D536573736F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>267</refId>
  <annexAId>23</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>268</refId>
  <annexAId>23</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the
CardApplicationServiceDescribe access rule of the
     A00000041000010001 application. Remove the ability to describe card
applications.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>269</refId>
  <annexAId>24</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ExecuteAction access rule of the
A00000041000010001 application. Remove the ability to execute
     a generic action.</description>
  <encodedData
type="xs:hexBinary">7F901F4BA14980010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001830F436172644170706C69636174696F6EA40F820D4578656375
7465416374696F6EA503820100</encodedData>
</invAspect>
<invAspect>
  <refId>270</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181A8A181A5A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31814F7F901F4BA14980010181
10434152442D4150504C49434154494F4EA20B8209A00000041000010001830F436172644170
706C69636174696F6EA40F820D4578656375746541 74696F6EA503820100</encodedData>
</invAspect>
<invAspect>
  <refId>271</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>272</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>273</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D5BA151804F7F901F4BA14980010181104341524 42D4150504C
49434154494F4EA20B8209A0000004100001000183 0F436172644170706C69636174696F6EA4
0F820D45786563757465416374696F6EA5038201008 2064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>274</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>275</refId>
  <annexAId>24</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>276</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>277</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>278</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>279</refId>
  <annexAId>24</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F902008820641504 95F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>280</refId>
  <annexAId>24</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ExecuteAction
access rule of the A00000041000010001
     application. Remove the ability to execute a generic
action.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>281</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetList access rule of the A00000041000010001
application: Internal AND (CHPIN OR
     MangExternalCert OR AlphaExternalCert OR
BetaExternalCert).</description>
  <encodedData
type="xs:hexBinary">7F901F81BEA181BB800101811043415244 2D4150504C49434154494F
4EA20B8209A00000041000010001830 94E616D656444617461A40D830B446174615365744C69
7374A57DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850
494EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A
```

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```
8011416C70686145787465726E616C43657274A1028000820100A019801042657461457874657
26E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>282</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182011EA182011AA052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D318181C37F901F81BEA181
BB8001018110434152442D4150504C49434154494F4EA20B8209A000000410000100018309 4E
616D656444617461A40D830B446174615365744C697374A57DA47BA015800C496E7465726E61
6C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E67
45787465726E616C43657274A10280008201FFA01A8011416C70686145787465726E616C4365
7274A1028000820100A019801042657461457874657 26E616C43657274A1028000820100</en
codedData>
</invAspect>
<invAspect>
  <refId>283</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>284</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>285</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D81D1A181C68081C37F901F81BEA181BB800101811043415244
2D4150504C49434154494F4EA20B8209A000000410000100018309 4E616D656444617461A40D
```

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```
830B446174615365744C697374A57DA47BA015800C496E7465726E616C43657274A102800082
01FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FFA01A8011416C70686145787465726E616C43657274A1028000820100A0
19801042657461457874657 26E616C43657274A10280008201008206415049 5F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>286</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>287</refId>
  <annexAId>25</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>288</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>289</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>290</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>291</refId>
  <annexAId>25</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>292</refId>
  <annexAId>25</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DataSetList
access rule of the A00000041000010001
     application: Internal AND (CHPIN OR MangExternalCert OR
AlphaExternalCert OR BetaExternalCert).</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>293</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetCreate access rule of the
A00000041000010001 application: Internal AND
     MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A1748001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000100018309 4E616D656444617461A40F830D4461746153657443726561
7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>294</refId>
```

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```
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D3A181D0A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31817A7F901F76A17480010181
10434152442D4150504C49434154494F4EA20B8209A0000004100001000183094E616D656444
617461A40F830D4461746153657443726561746 5A534A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</en
codedData>
</invAspect>
<invAspect>
  <refId>295</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>296</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>297</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8186A17C807A7F901F76A17480010181104341524 42D415050
4C49434154494F4EA20B8209A0000004100001000183094E616D656444617461A40F830D4461
7461536574437265617465A534A432A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF82064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>298</refId>
  <annexAId>26</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>299</refId>
  <annexAId>26</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>300</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F9020882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>301</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>302</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>303</refId>
  <annexAId>26</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>304</refId>
  <annexAId>26</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DataSetCreate
access rule of the A00000041000010001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>305</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DataSetDelete access rule of the
A00000041000010001 application: Internal AND
     MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A17480010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001830 94E616D656444617461A40F830D4461746153657444656C65
7465A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>306</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D3A181D0A052801C436C69656E7441707053696465 2D5443
```

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2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E744170705369646652D54432D53657373696F6E49442D31817A7F901F76A17480010181
10434152442D4150504C49434154494F4EA20B8209A0000004100001000183094E616D656444
617461A40F830D4461746153657444656C657465A534A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</en
codedData>
</invAspect>
<invAspect>
  <refId>307</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>308</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>309</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8186A17C807A7F901F76A17480010181104341524 42D415050
4C49434154494F4EA20B8209A0000004100001000183094E616D656444617461A40F830D4461
746153657444656C657465A534A432A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF82064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>310</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"><Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction></encodedData>

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```
</invAspect>
<invAspect>
  <refId>311</refId>
  <annexAId>27</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>312</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>313</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>314</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>315</refId>
  <annexAId>27</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>316</refId>
  <annexAId>27</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DataSetDelete
access rule of the A00000041000010001
      application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F902008820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>317</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDCreate access rule of the A00000041000010001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F7DA17B800101811043415244 2D4150504C49434154494F4EA2
0B8209A00000041000010001831444696666572656E7469616C4964656E74697479A40B8509
444944437265617465A534A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>318</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181DBA181D8A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D318181817F901F7DA17B800101
8110434152442D4150504C49434154494F4EA20B8209A00000041000010001831444696666665
72656E7469616C4964656E74697479A40B85094449444437265617465A534A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>319</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>320</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>321</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818FA181848081817F901F7DA17B800101811043415244 2D41
50504C49434154494F4EA20B8209A0000004100001000183144469666665726 56E7469616C49
64656E74697479A40B85094449444437265617465A534A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>322</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>323</refId>
  <annexAId>28</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>324</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645536964652D54432D53
657373696F6E49442D31821C536D617274636172645536964652D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>325</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>326</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
6573736F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>327</refId>
  <annexAId>28</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>328</refId>
  <annexAId>28</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDCreate
access rule of the A00000041000010001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>329</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the DIDDelete access rule of the A00000041000010001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F7DA17B8001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000100018314446966666572656E7469616C4964656E74697479A40B8509
44494444656C657465A534A432A015800C496E7465726E616C43657274A10280008201FFA019
80104D616E6745787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>330</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181DBA181D8A052801C436C69656E74417070536964652D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E74417070536964652D54432D53657373696F6E49442D318181817F901F7DA17B800101
8110434152442D4150504C49434154494F4EA20B8209A000000410000100018314446966666572
72656E7469616C4964656E74697479A40B8509444944444656C657465A534A432A015800C496E
7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>331</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>332</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>333</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D818FA1818480818 17F901F7DA17B800101811043415244 2D41
50504C49434154494F4EA20B8209A0000004100001000181444696666657265 6E7469616C49
64656E74697479A40B850944494444656C657465A534A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF8206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>334</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>335</refId>
  <annexAId>29</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>336</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>337</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>338</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>339</refId>
  <annexAId>29</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>340</refId>
  <annexAId>29</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the DIDDelete
access rule of the A00000041000010001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>341</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Modify the ACLModify access rule of the A00000041000010001
application: Internal AND MangExternalCert.</description>
  <encodedData
type="xs:hexBinary">7F901F76A17480010181104341524 42D4150504C49434154494F4EA2
0B8209A00000041000010001830D417574686F72697A6174696F6EA40B860941434C4D6F6469
6679A534A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745
787465726E616C43657274A10280008201FF</encodedData>
</invAspect>
<invAspect>
  <refId>342</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181D3A181D0A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31817A7F901F76A17480010181
10434152442D4150504C49434154494F4EA20B8209A00000041000010001830D417574686F72
697A6174696F6EA40B860941434C4D6F64696679A534A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF</en
codedData>
</invAspect>
<invAspect>
  <refId>343</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>344</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>345</refId>
```

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```
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8186A17C807A7F901F76A1748001018110434152442D415050
4C49434154494F4EA20B8209A0000004100001000183OD417574686F72697A6174696F6EA40B
860941434C4D6F64696679A534A432A015800C496E7465726E616C43657274A10280008201FF
A01980104D616E6745787465726E616C43657274A10280008201FF82064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>346</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>347</refId>
  <annexAId>30</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>348</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>349</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>350</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E744170705369646 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E744170705369646 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>351</refId>
  <annexAId>30</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F90200882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>352</refId>
  <annexAId>30</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Modify the ACLModify
access rule of the A00000041000010001
     application: Internal AND MangExternalCert.</description>
  <encodedData type="xs:hexBinary">7F90200882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>353</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to modify the CardApplicationList access rule of the
A00000041000010001 application. This
```

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```
      ACLModify shall fail as the previous ACLModify restricts permissions to
modify A00000041000010001's ACLs. Ensure the
      ACLModify access rule is enforced.</description>
  <encodedData
type="xs:hexBinary">7F901F51A14F8001018110434152442D4150504C49434154494F4EA2
0B8209A000000410000100018 30F436172644170706C69636174696F6EA41582134361726441
70706C69636174696F6E4C697374A503820100</encodedData>
</invAspect>
<invAspect>
  <refId>354</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3181AEA181ABA052801C436C69656E74417070536964652D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E74417070536964652D54432D53657373696F6E49442D318114 7F901F51A14F80010181
10434152442D4150504C49434154494F4EA20B8209A000000410000100018 30F436172644170
706C69636174696F6EA41582134361726441 70706C69636174696F6E4C697374A503820100</
encodedData>
</invAspect>
<invAspect>
  <refId>355</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>356</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>357</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D61A15780557F901F51A14F8001018110434152442D4150504C
49434154494F4EA20B8209A0000004100001000183 0F436172644170706C69636174696F6EA4
1582134361726441707 06C69636174696F6E4C697374A503820100820641504 95F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>358</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>359</refId>
  <annexAId>31</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>360</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F316CA16AA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31812A7F90202682244150495F53454355524954595F434F4E444954494F4E5F4E4F545F53
4154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>361</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>362</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>363</refId>
  <annexAId>31</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D36A12C802A7F902026822441504 95F53454355524954595F43
4F4E444954494F4E5F4E4F545F534154495346494544820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>364</refId>
  <annexAId>31</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclModify</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to modify the
CardApplicationList access rule of the
     A00000041000010001 application. This ACLModify shall fail as the
previous ACLModify restricts permissions to modify
     A00000041000010001's ACLs. Ensure the ACLModify access rule is
enforced.</description>
  <encodedData
type="xs:hexBinary">7F9020268224415049 5F53454355524954595F434F4E444954494F4E
5F4E4F545F534154495346494544</encodedData>
</invAspect>
<invAspect>
  <refId>365</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the InternalCert DID. This, combined with
MangExternalCert, shall provide us with management
     permissions to update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B19A117800101A1028000820C496E7465726E616C4365727483
00</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>366</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3175A173A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31811D7F901B19A117800101A10280
00820C496E7465726E616C436572748300</encodedData>
</invAspect>
<invAspect>
  <refId>367</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>368</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>369</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D29A11F801D7F901B19A117800101A1028000820C496E746572
6E616C436572748300820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>370</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>371</refId>
  <annexAId>32</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>372</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3152A150A03C801C536D6172746361726453696465 2D54432D53
657373696F6E49442D31821C536D6172746361726453696465 2D54432D53657373696F6E4944
2D3181107F901C0CA10280008206415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>373</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>374</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
```

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657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>375</refId>
  <annexAId>32</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F901C0CA10280008206415049 5F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>376</refId>
  <annexAId>32</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
InternalCert DID. This, combined with
     MangExternalCert, shall provide us with management permissions to
update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>377</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Authenticate the MangExternalCert DID. This, combined with
InternalCert, shall provide us with management
     permissions to update the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B1DA11B800101A102800082104D616E6745787465726E616C43
6572748300</encodedData>
</invAspect>
<invAspect>
  <refId>378</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3179A177A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
```

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```
6E74417070536964652D54432D53657373696F6E49442D3181217F901B1DA11B800101A10280
0082104D616E6745787465726E616C436572748300</encodedData>
</invAspect>
<invAspect>
  <refId>379</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>380</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>381</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D2DA12380217F901B1DA11B800101A102800082104D616E6745
787465726E616C43657274830082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>382</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>383</refId>
  <annexAId>33</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>384</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3152A150A03C801C536D6172746361726453696465 2D54432D53
657373696F6E49442D31821C536D6172746361726453696465 2D54432D53657373696F6E4944
2D3181107F901C0CA10280008206415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>385</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>386</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>387</refId>
  <annexAId>33</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F901C0CA10280008206415049 5F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>388</refId>
  <annexAId>33</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Authenticate the
MangExternalCert DID. This, combined with
     InternalCert, shall provide us with management permissions to update
the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>389</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS1 dataset. All authenticated users can read
this information. Only management can update
     this information.</description>
  <encodedData
type="xs:hexBinary">7F8F738203E0A18203DC8001018105312D445331A28203CE301F800D
417574686F72697A6174696F6EA10986074143 4C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
6D656444617461A10B8309445349437265617465A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B8309445349446564C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FFA0819580094E616D656444617461A10983074453494C697374A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
6861457874657 6E616C43657274A1028000820100A019801042657461457874657 26E616C43
657274A10280008201003081958009 4E616D656444617461A10983074453495 2656164A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
6861457874657 26E616C43657274A1028000820100A019801042657461457874657 26E616C43
657274A10280008201003081998009 4E616D656444617461A10D830B446174615365744C6973
74A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800543485049
4EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A80
11416C70686145787465726E616C43657274A1028000820100A019801042657461457874657 2
6E616C43657274A10280008201003081 9B80094E616D656444617461A10F830D446174615365
7453656C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
820100A01A8011416C70686145787465726E616C43657274A1028000820100A0198010426574
6145787465726E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>390</refId>
  <annexAId>34</annexAId>
```


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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820442A182043EA052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D31818203E67F8F738203E0
A18203DC8001018105312D445331A28203CE301F800D417574686F72697A6174696F6EA10986
0741434C4C697374A2038101FF304D80094E616D656444617461A10A830844534195772697465
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF304E80094E616D656444617461A10B83094453494372
65617465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E
6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10B830944
534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF30528001D417574686F72697A6174
696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30819580094E
616D656444617461A10983074453494C697374A27DA47BA015800C496E7465726E616C436572
74A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465
726E616C43657274A1028000820100A01A8011416C70686145787465726E616C43657274A102
8000820100A019801042657461457874657 26E616C43657274A10280008201003081958009 4E
616D656444617461A109830744534952656164A27DA47BA015800C496E7465726E616C436572
74A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465
726E616C43657274A1028000820100A01A8011416C70686145787465726E616C43657274A102
8000820100A019801042657461457874657 26E616C43657274A10280008201003081958009 4E
616D656444617461A10D830B4461746153657453656C656374A27DA47BA015800C496E7465726E61
6C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E67
45787465726E616C43657274A1028000820100A01A8011416C70686145787465726E616C4365
7274A1028000820100A019801042657461457874657 26E616C43657274A10280008201003081
9B80094E616D656444617461A10F830D4461746153657453656C656374A27DA47BA015800C49
6E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA019
80104D616E6745787465726E616C43657274A1028000820100A01A8011416C70686145787465
726E616C43657274A1028000820100A019801042657461457874657 26E616C43657274A10280
00820100</encodedData>
</invAspect>
<invAspect>
  <refId>391</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>392</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
```

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657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>393</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D8203F6A18203EA808203E67F8F738203E0A18203DC80010181
05312D445331A28203CE301F800D417574686F72697A6174696F6EA10986074144C4C697374
A2038101FF304D80094E616D656444617461A10A830844534957726974657A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF304E80094E616D656444617461A10B830944534943726574657A234A432
A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E61
6C43657274A10280008201FF304E80094E616D656444617461A10B8309445349443726574657A
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941
434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF30819580094E616D656444617461
A10983074453494C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FF
A562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274
A1028000820100A01A8011416C7068614578746572 6E616C43657274A1028000820100A01980
1042657461457874657 26E616C43657274A10280008201003081958009 4E616D656444617461
A109830744534952656164A27DA47BA015800C496E7465726E616C43657274A10280008201FF
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A1028000820100A01A8011416C7068614578746572 6E616C43657274A1028000820100A01980
1042657461457874657 26E616C43657274A10280008201003081958009 4E616D656444617461
A10D830B446174615365744C697374A27DA47BA015800C496E7465726E616C43657274A10280
008201FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C
43657274A1028000820100A01A8011416C7068614578746572 6E616C43657274A10280008201
00A019801042657461457874657 26E616C43657274A10280008201003081 9B80094E616D6564
44617461A10F830D4461746153657453656C656374A27DA47BA015800C496E7465726E616C43
657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E674578
7465726E616C43657274A1028000820100A01A8011416C7068614578746572 6E616C43657274
A1028000820100A019801042657461457874657 26E616C43657274A10280008201008206415 0
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>394</refId>
  <annexAId>34</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>395</refId>
  <annexAId>34</annexAId>
```

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```
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>396</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D6172746361726453696465 2D54432D53
657373696F6E49442D31821C536D6172746361726453696465 2D54432D53657373696F6E4944
2D31810C7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>397</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>398</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>399</refId>
  <annexAId>34</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
```

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```
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F740882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>400</refId>
  <annexAId>34</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS1 dataset.
All authenticated users can read this
      information. Only management can update this information.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>401</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS1-DSI1 DSI. A DataSetCreate call automatically
selects the new DataSet. Ensure that a DSI
      can be created in the 1-DS1 DataSet without needing to invoke
DataSetSelect.</description>
  <encodedData
type="xs:hexBinary">7F8F7B34A13280010181 0A312D4453312D4453493182214E616D653A
20426F62204D634C65616E3B20444F423A20323030382D31302D3033</encodedData>
</invAspect>
<invAspect>
  <refId>402</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318191A1818EA052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617474636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D3181387F8F7B34A13280010181
0A312D4453312D4453493182214E616D653A20426F62204D634C65616E3B20444F423A203230
30382D31302D3033</encodedData>
</invAspect>
<invAspect>
  <refId>403</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>404</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>405</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D44A13A80387F8F7B34A132800101810A312D4453312D445349
3182214E616D653A20426F62204D634C65616E3B20444F423A20323030382D31302D30338206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>406</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>407</refId>
  <annexAId>35</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>408</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>409</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>410</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>411</refId>
  <annexAId>35</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F7C0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>412</refId>
  <annexAId>35</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS1-DSI1 DSI.
A DataSetCreate call automatically selects
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```
     the new DataSet. Ensure that a DSI can be created in the 1-DS1 DataSet
without needing to invoke DataSetSelect.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>413</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS2 dataset. All authenticated users can read
this information. Only management and the card
     holder can update this information. Ensure that a card application can
contain multiple DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F738203E0A18203DC8001018105312D445332A28203CE301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726979746 5A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF30819580094E616D656444617461A10983074453494C697374A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A019801042657461457874657265E616C43
657274A10280008201003081958009 4E616D656444617461A10983074453495265616 4A27DA4
7BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280
008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A8011416C70
686145787465726E616C43657274A1028000820100A019801042657461457874657265E616C43
657274A10280008201003081998009 4E616D656444617461A10D830B446174615365744C6973
74A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E800543485049
4EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000820100A01A80
11416C706861457874657265E616C43657274A1028000820100A019801042657461457874657 2
6E616C43657274A10280008201003081 B80094E616D656444617461A10F830D446174615365
7453656C656374A27DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E
80054348504 4EA10280008201FFA01980104D616E6745787465726E616C43657274A1028000
820100A01A8011416C706861457874657265E616C43657274A1028000820100A019801042657 4
6145787465726E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>414</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F31820442A182043EA052801C436C69656E7441707053696 4652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E7441707053696 4652D54432D53657373696F6E49442D31818203E67F8F738203E0
A18203DC8001018105312D445332A28203CE301F800D417574686F72697A6174696F6EA10986
0741434C4C697374A2038101FF304D80094E616D656444617461A10A830844534957726974 5
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A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF304E80094E616D656444617461A10B83094453494372
65617465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E
6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10B830944
534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F72697A6174
696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30819580094E
616D656444617461A10983074453494C697374A27DA47BA015800C496E7465726E616C436572
74A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465
726E616C43657274A1028000820100A01A8011416C7068614578746572 6E616C43657274A102
8000820100A0198010426574614578746572 6E616C43657274A10280008201003081 9580094E
616D656444617461A10983074453494952656164A27DA47BA015800C496E7465726E616C436572
74A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465
726E616C43657274A1028000820100A01A8011416C7068614578746572 6E616C43657274A102
8000820100A0198010426574614578746572 6E616C43657274A10280008201003081 9980094E
616D656444617461A10D830B446174615365744C697374A27DA47BA015800C496E7465726E61
6C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E67
45787465726E616C43657274A1028000820100A01A8011416C7068614578746572 6E616C4365
7274A1028000820100A0198010426574614578746572 6E616C43657274A10280008201003081
9B80094E616D656444617461A10F830D4461746153657453656C656374A27DA47BA015800C49
6E7465726E616C43657274A10280008201FFA562A00E8005434850494EA10280008201FFA019
80104D616E6745787465726E616C43657274A1028000820100A01A8011416C7068614578746572
726E616C43657274A1028000820100A0198010426574614578746572 6E616C43657274A10280
00820100</encodedData>
</invAspect>
<invAspect>
  <refId>415</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>416</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>417</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D8203F6A18203EA808203E67F8F738203E0A18203DC80010181
05312D445332A28203CE301F800D417574686F72697A6174696F6EA109860741434C4C697374
A2038101FF304D80094E616D656444617461A10A830844534957726974657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF304E80094E616D656444617461A10B8309445349437265617465A234A432
A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E61
6C43657274A10280008201FF304E80094E616D656444617461A10B8309445349446656C657465
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941
434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF30819580094E616D656444617461
A10983074453494C697374A27DA47BA015800C496E7465726E616C43657274A10280008201FF
A562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274
A1028000820100A01A8011416C7068614578746572 6E616C43657274A1028000820100A01980
1042657461457874657 26E616C43657274A10280008201003081958009 4E616D656444617461
A109830744534952656164A27DA47BA015800C496E7465726E616C43657274A10280008201FF
A562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274
A1028000820100A01A8011416C7068614578746572 6E616C43657274A1028000820100A01980
1042657461457874657 26E616C43657274A10280008201003081998009 4E616D656444617461
A10D830B446174615365744C697374A27DA47BA015800C496E7465726E616C43657274A10280
008201FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C
43657274A1028000820100A01A8011416C7068614578746572 6E616C43657274A10280008201
00A019801042657461457874657 26E616C43657274A10280008201003081 9B80094E616D6564
44617461A10F830D4461746153657453656C656374A27DA47BA015800C496E7465726E616C43
657274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E674578
7465726E616C43657274A1028000820100A01A8011416C7068614578746572 6E616C43657274
A1028000820100A019801042657461457874657 26E616C43657274A10280008201008206415 0
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>418</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>419</refId>
  <annexAId>36</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>420</refId>
```

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```
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F740882064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>421</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>422</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D3181146874703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>423</refId>
  <annexAId>36</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F740882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>424</refId>
  <annexAId>36</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Create the 1-DS2 dataset.
All authenticated users can read this
     information. Only management and the card holder can update this
information. Ensure that a card application can
     contain multiple DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>425</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS2-DSI1 DSI. A DataSetCreate call automatically
selects the new DataSet. Ensure that a DSI
     can be created in the 1-DS2 DataSet without needing to invoke
DataSetSelect.</description>
  <encodedData
type="xs:hexBinary">7F8F7B3CA13A800101810A312D4453322D44534931822953747265657
743A203233204A61636172616E64612053743B20537572627572623A2057696E73746F6E</en
codedData>
</invAspect>
<invAspect>
  <refId>426</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318199A18196A052801C436C69656E74417070536964652D5443
2D53657373696F6E49442D31814687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696E652D54432D53657373696F6E49442D3181407F8F7B3CA13A80010181
0A312D4453322D44534931822953747265657 43A203233204A61636172616E64612053743B20
537572627572623A2057696E73746F6E</encodedData>
</invAspect>
<invAspect>
  <refId>427</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>428</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>429</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D4CA14280407F8F7B3CA13A800101810A312D4453322D445349
3182295374726565743A203233204A61636172616E64612053743B20537572627572623A2057
696E73746F6E82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>430</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>431</refId>
  <annexAId>37</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>432</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
```

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```
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>433</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>434</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>435</refId>
  <annexAId>37</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F7C0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>436</refId>
  <annexAId>37</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS2-DSI1 DSI.
A DataSetCreate call automatically selects
     the new DataSet. Ensure that a DSI can be created in the 1-DS2 DataSet
without needing to invoke DataSetSelect.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>437</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS2-DSI2 DSI. Ensure that a DataSet can contain
multiple DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7B3DA13B800101810A312D4453322D44534932822A4C616E646C
696E653A2030353120363231203238333B204D6F62696C653A2030343220383239203338 31</
encodedData>
</invAspect>
<invAspect>
  <refId>438</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call</description>
  <encodedData
type="xs:hexBinary">7F9F31819AA18197A052801C436C69656E74417070536964652D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E74417070536964652D54432D53657373696F6E49442D3181417F8F7B3DA13B80010181
0A312D4453322D44534932822A4C616E646C696E653A2030353120363231203238333B204D6F
62696C653A2030343220383239203338 31</encodedData>
</invAspect>
<invAspect>
  <refId>439</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>440</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>441</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D4DA14380417F8F7B3DA13B800101810A312D4453322D445349
32822A4C616E646C696E653A203035312036323120323833 3B204D6F62696C653A2030343220
383239203338318206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>442</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>443</refId>
  <annexAId>38</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>444</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>445</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>446</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>447</refId>
  <annexAId>38</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F7C0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>448</refId>
  <annexAId>38</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS2-DSI2 DSI.
Ensure that a DataSet can contain multiple
     DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>449</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3 dataset. All authenticated users, except the
Alpha DID, can read this information. Only
     management can update this information. Ensure that a card application
can contain multiple DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F738202EDA18202E98001018105312D445333A28202DB301F800D
417574686F72697A6174696F6EA109860741434C4C697374A2038101FF304D80094E616D6564
44617461A10A830844534957726974657A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E80094E61
6D656444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C4365
7274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E
80094E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E
616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A102800082
```

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```
01FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015
800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43
657274A10280008201FF307980094E616D656444617461A10983074453494C697374A261A45F
A015800C496E7465726E616C43657274A10280008201FFA546A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA019801042657461
45787465726E616C43657274A1028000820100307980094E616D656444617461A10983074453
4952656164A261A45FA015800C496E7465726E616C43657274A10280008201FFA546A00E8005
434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201
FFA019801042657461457874657 26E616C43657274A1028000820100307F80094E616D656444
617461A10F830D44617461536574536 56C656374A261A45FA015800C496E7465726E616C4365
7274A10280008201FFA546A00E8005434850494EA10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FFA019801042657461457874657 26E616C43657274A102
8000820100</encodedData>
</invAspect>
<invAspect>
  <refId>450</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3182034FA182034BA052801C436C69656E7441707053696465 2D
54432D53657373696F6E49442D3181146874747 3A2F2F736D617274636172642E6E6574821C
436C69656E7441707053696465 2D54432D53657373696F6E49442D31818202F37F8F738202ED
A18202E98001018105312D445333A28202DB301F800D417574686F72697A6174696F6EA10986
0741434C4C697374A2038101FF304D80094E616D656444617461A10A830844534957726974 65
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF304E80094E616D656444617461A10B83094453494372
65617465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E
6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10B830944
534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F72697A6174
696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF307980094E61
6D656444617461A10983074453494C697374A261A45FA015800C496E7465726E616C43657274
A10280008201FFA546A00E8005434850494EA10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FFA019801042657461457874657 26E616C43657274A1028000
820100307980094E616D656444617461A10983074453495265616 4A261A45FA015800C496E74
65726E616C43657274A10280008201FFA546A00E8005434850494EA10280008201FFA0198010
4D616E6745787465726E616C43657274A10280008201FFA019801042657461457874657 26E61
6C43657274A1028000820100307F80094E616D656444617461A10F830D446174615365745365
6C656374A261A45FA015800C496E7465726E616C43657274A10280008201FFA546A00E800543
4850494EA10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
A019801042657461457874657 26E616C43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>451</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```


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```
  <refId>452</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>453</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820303A18202F7808202F37F8F738202EDA18202E980010181
05312D445333A28202DB301F800D417574686F72697A6174696F6EA109860741434C4C697374
A2038101FF304D80094E616D656444617461A10A830844534957726974657A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF304E80094E616D6564446174617A10B830944534943726561746 5A234A432
A015800C496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E61
6C43657274A10280008201FF304E80094E616D656444617461A10B8309445349445656C657465
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF3052800D417574686F72697A6174696F6EA10B860941
434C4D6F64696679A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF307980094E616D656444617461A1
0983074453494C697374A261A45FA015800C496E7465726E616C43657274A10280008201FFA5
46A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C43657274A1
0280008201FFA0198010426574614578746 5726E616C43657274A10280008201003079800 94E
616D656444617461A10983074534952656164A261A45FA015800C496E7465726E616C436572
74A10280008201FFA546A00E8005434850494EA10280008201FFA01980104D616E6745787465
726E616C43657274A10280008201FFA0198010426574614578746 5726E616C43657274A10280
00820100307F80094E616D656444617461A10F830D4461746153657453656C656374A261A45F
A015800C496E7465726E616C43657274A10280008201FFA546A00E8005434850494EA1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FFA019801042657461
457874657265 6E616C43657274A10280008201008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>454</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>455</refId>
  <annexAId>39</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>456</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>457</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>458</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>459</refId>
  <annexAId>39</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F740882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>460</refId>
  <annexAId>39</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS3 dataset.
All authenticated users, except the Alpha
      DID, can read this information. Only management can update this
information. Ensure that a card application can
      contain multiple DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>461</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3-DSI1 DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7B1FA11D800101810A312D4453332D44534931820C5365766572
653A204E6F6E65</encodedData>
</invAspect>
<invAspect>
  <refId>462</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F317BA179A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181237F8F7B1FA11D800101810A31
2D4453332D44534931820C5365766572653A204E6F6E65</encodedData>
</invAspect>
<invAspect>
  <refId>463</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>464</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>465</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D2FA12580237F8F7B1FA11D800101810A312D4453332D445349
31820C5365766572653A204E6F6E6582064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>466</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>467</refId>
  <annexAId>40</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>468</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F8F7C0882064150495F4F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>469</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>470</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D3181146874747032F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>471</refId>
  <annexAId>40</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F7C0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>472</refId>
  <annexAId>40</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS3-DSI1
DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>473</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3-DSI2 DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7B1DA11B800101810A312D4453332D44534932820A446573633A
204E6F6E65</encodedData>
</invAspect>
<invAspect>
  <refId>474</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3179A177A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D536573736965 6E49442D3181217F8F7B1DA11B800101810A31
2D4453332D44534932820A446573633A204E6F6E65</encodedData>
</invAspect>
<invAspect>
  <refId>475</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>476</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>477</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D2DA12380217F8F7B1DA11B800101810A312D4453332D445349
32820A446573633A204E6F6E6582064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>478</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>479</refId>
  <annexAId>41</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>480</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>481</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>482</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>483</refId>
  <annexAId>41</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F7C0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>484</refId>
  <annexAId>41</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the 1-DS3-DSI2
DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>485</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the 1-DS3-DSI3 DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7B29A127800101810A312D4453332D4453493382164E616D653A
204E6F6E653B20446F73653A204E6F6E65</encodedData>
</invAspect>
<invAspect>
  <refId>486</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318186A18183A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31812D7F8F7B29A12780010181
0A312D4453332D4453493382164E616D653A204E6F6E653B20446F73653A204E6F6E65</enco
dedData>
</invAspect>
<invAspect>
  <refId>487</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>488</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>489</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D39A12F802D7F8F7B29A127800101810A312D4453332D445349
3382164E616D653A204E6F6E653B20446F73653A204E6F6E6582064150495F4F4B</encodedD
ata>
</invAspect>
<invAspect>
  <refId>490</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
```

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```
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>491</refId>
  <annexAId>42</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>492</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>493</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>494</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>495</refId>
  <annexAId>42</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F7C0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>496</refId>
  <annexAId>42</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the1-DS3-DSI3
DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>497</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the AccessLog dataset. Only the card holder (CHPIN)
can read this information and only if logging
     has been enabled by authenticating with the global LogAccess DID. The
information is updated by the DataSetSelect
     method. Ensure that an access rule can refer to a Global
DID.</description>
  <encodedData
type="xs:hexBinary">7F8F73820281A182027D8001018109416363657373 4C6F67A282026B
301C80094E616D6564446174 61A10A830844534957 2697465A203820100301F800D41757468
6F72697A6174696F6EA10 9860741434C4C697374A2038101FF304180094E616D656444617461
A10983074453494C69737 4A229A427A015800C496E7465726E616C43657274A10280008201FF
A00E8005434850494EA10280008201FF304E80094E616D656444617461A10B83094453494372
65617465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E
6745787465726E616C43657274A10280008201FF304E80094E616D656444617461A10B830944
534944656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980
104D616E6745787465726E616C43657274A10280008201FF3052800D417574686F72697A6174
696F6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FF305580094E61
6D656444617461A1098307445349526561 64A23DA43BA015800C496E7465726E616C43657274
A10280008201FFA00E8005434850494EA10280008201FFA012800941636365737 34C6F67A102
810082010030819B80094E616D656444617461A10F830D4461746153657453656C656374A27D
A47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA102
80008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A8011416C
706861457874657 26E616C43657274A1028000820100A019801042657461457874657 26E616C
43657274A1028000820100</encodedData>
</invAspect>
<invAspect>
  <refId>498</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318202E3A18202DFA052801C436C69656E74417070536964652D
54432D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C
436C69656E74417070536964652D54432D53657373696F6E49442D31818202877F8F73820281
A182027D8001018109416363657373 4C6F67A282026B301C80094E616D656444617461A10A83
0844534957726974 65A203820100301F800D417574686F72697A6174696F6EA109860741434C
4C697374A2038101FF304180094E616D656444617461A10983074453494C697374A229A427A0
15800C496E7465726E616C43657274A10280008201FFA00E8005434850494EA10280008201FF
304E80094E616D656444617461A10B83094453494372656174 65A234A432A015800C496E7465
726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280
008201FF304E80094E616D656444617461A10B830944534944656C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF305580094E616D656444617461A10983074453495265
6164A23DA43BA015800C496E7465726E616C43657274A10280008201FFA00E8005434850494E
A10280008201FFA012800941636365737 34C6F67A10281082010030819B80094E616D656444
617461A10F830D44617461536574534 56C656374A27DA47BA015800C496E7465726E616C4365
7274A10280008201FFA562A00E8005434850494EA10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FFA01A8011416C7068614578746 5726E616C43657274A1
028000820100A019801042657461457874657 26E616C43657274A1028000820100</encodedD
ata>
</invAspect>
<invAspect>
  <refId>499</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>500</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>501</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
```

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```
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D820297A182028B808202877F8F73820281A182027D80010181
094163636573734C6F67A282026B301C80094E616D656444617461A10A830844534957726974
65A203820100301F800D417574686F72697A6174696F6EA109860741434C4C697374A2038101
FF304180094E616D656444617461A10983074453494C697374A229A427A015800C496E746572
6E616C43657274A10280008201FFA00E8005434850494EA10280008201FF304E80094E616D65
6444617461A10B830944534943726561746 5A234A432A015800C496E7465726E616C43657274
A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF304E8009
4E616D656444617461A10B830944534944656C657465A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF305580094E616D656444617461A1098307445349526561 64A23DA43BA015
800C496E7465726E616C43657274A10280008201FFA00E8005434850494EA10280008201FFA0
12800941636365737 34C6F67A10281008201003081 9B80094E616D656444617461A10F830D44
6174615365745365 6C656374A27DA47BA015800C496E7465726E616C43657274A10280008201
FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FFA01A8011416C70686145787465726E616C43657274A10280008201 00A019
801042657461457874657265726E616C43657274A1028000820100820641504 95F4F4B</encodedD
ata>
</invAspect>
<invAspect>
  <refId>502</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>503</refId>
  <annexAId>43</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>504</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
```

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```
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F740882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>505</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>506</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D3181146874747 03A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>507</refId>
  <annexAId>43</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F740882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>508</refId>
  <annexAId>43</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the AccessLog
dataset. Only the card holder (CHPIN) can read
      this information and only if logging has been enabled by authenticating
with the global LogAccess DID. The
      information is updated by the DataSetSelect method. Ensure that an
access rule can refer to a Global DID.</description>
  <encodedData type="xs:hexBinary">7F8F740882064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>509</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>CALL</invocationType>
  <description>Create the AccessLog DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7B12A11080010181094163636573734C6F678200</encodedDat
a>
</invAspect>
<invAspect>
  <refId>510</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F316EA16CA052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181167F8F7B12A110800101810941
63636573734C6F678200</encodedData>
</invAspect>
<invAspect>
  <refId>511</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>512</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>513</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D22A11880167F8F7B12A11080010181094163636573734C6F67
820082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>514</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>515</refId>
  <annexAId>44</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>516</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31810C7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>517</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>518</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>519</refId>
  <annexAId>44</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F7C0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>520</refId>
  <annexAId>44</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiCreate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Create the AccessLog
DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7C0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>521</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Authenticate as the card holder. This shall
enable us to read the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901B12A110800101A10280008205434850494E8300</encodedDat
a>
</invAspect>
<invAspect>
  <refId>522</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F316EA16CA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181167F901B12A110800101A10280
008205434850494E8300</encodedData>
</invAspect>
<invAspect>
  <refId>523</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>524</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>525</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D22A11880167F901B12A110800101A10280008205434850494E
8300820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>526</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>527</refId>
  <annexAId>45</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>528</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3152A150A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D3181107F901C0CA102800082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>529</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>530</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>531</refId>
  <annexAId>45</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F901C0CA10280008206415049 5F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>532</refId>
  <annexAId>45</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didAuthenticate</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition:
Authenticate as the card holder. This shall enable us
      to read the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F901C0CA10280008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>533</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000010001 card
application access rules. Ensure that the ACL has
      been updated appropriately.</description>
  <encodedData
type="xs:hexBinary">7F901D24A12280010181104341524 42D4150504C49434154494F4EA2
0B8209A0000004100001000 1</encodedData>
</invAspect>
<invAspect>
  <refId>534</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318180A17EA052801C436C69656E7441707053696465 2D54432D
53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C69
656E7441707053696465 2D54432D53657373696F6E49442D3181287F901D24A1228001018110
434152442D4150504C49434154494F4EA20B8209A0000004100001000 1</encodedData>
</invAspect>
<invAspect>
  <refId>535</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>536</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D536573736966E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>537</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D34A12A80287F901D24A12280010181104341524 42D4150504C
49434154494F4EA20B8209A00000041000010001820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>538</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>539</refId>
  <annexAId>46</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>540</refId>
```

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```
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31820582A182057EA03C801C536D6172746361726453696465 2D
54432D53657373696F6E49442D31821C536D6172746361726453696465 2D54432D5365737369
6F6E49442D318182053C7F901E820536A182052AA0820526301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F4361726441707 06C6963617469
6F6EA10F820D4578656375746541637469 6F6EA203820100302B800A436F6E6E656374696F6E
A1188116436172644170706C69636174696F6E436F6E656374A2038101FF302D800F436172
644170706C69636174696F6EA1158213436172644170706C69636174696F6E4C697374A20381
01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C
69636174696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174
696F6EA1178215436172644170706C69636174696F6E437265617465A2038101FF302F800F43
6172644170706C69636174696F6EA1178215436172644170706C69636174696F6E44656C6574
65A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F
6E537461727453657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA1
1C821A436172644170706C69636174696F6E536572766963654C697374A2038201003034800F
436172644170706C69636174696F6EA11C821A436172644170706C69636174696F6E53657276
6963654C6F6164A2038201003036800F436172644170706C69636174696F6EA11E821C436172
644170706C69636174696F6E536572766963654372656174 65A2038201003036800F43617264
4170706C69636174696F6EA11E821C436172644170706C69636174696F6E5365727669636544
656C657465A2038201003038800F436172644170706C69636174696F6EA120821E4361726441
70706C69636174696F6E536572766963654465736372696265A2038201003052800 94E616D65
6444617461A10F830D446174615365744372656174 65A234A432A015800C496E7465726E616C
43657274A10280008201FFA01980104D616E6745787465726E616C43657274A10280008201FF
305280094E616D656444617461A10F830D446174615365744465 6C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E7469
7479A10B85094449444372656174 65A234A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966
666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF30819980094E616D656444617461A10D830B446174615365744C697374A2
7DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657265726E616C43657274A1028000820100A019801042657461457874657265726E61
6C43657274A10280008201008206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>541</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
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```
  <refId>542</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>543</refId>
  <annexAId>46</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D82054CA18205408082053C7F901E820536A182052AA0820526
301F800D417574686F72697A6174696F6EA109860744434C4C697374A2038101FF3026801444
6966666572656E7469616C4964656E74697479A10985074449444C697374A2038101FF302780
0F436172644170706C69636174696F6EA10F820D45786563757465416374696F6EA203820100
302B800A436F6E6E656374696F6EA11881164361726441707 06C69636174696F6E436F6E6E65
6374A2038101FF302D800F4361726441707 06C69636174696F6EA11582134361726441707 06C
69636174696F6E4C697374A2038101FF302E800A436F6E6E656374696F6EA11B811943617264
4170706C69636174696F6E446973636F6E6E656374A2038101FF302E800A436F6E6E65637469
6F6EA11B81194361726441707 06C69636174696F6E456E6453657373696F6EA2038101FF302F
800F436172644170706C6963617469 6F6EA11782154361726441707 06C69636174696F6E4372
65617465A2038101FF302F800F436172644170706C69636174696F6EA11782154361726441707
706C69636174696F6E44656C657465A2038101FF3030800A436F6E6E656374696F6EA11D811B
436172644170706C6963617469 6F6E537461727453657373696F6EA2038101FF3034800F4361
726441707 06C69636174696F6EA11C821A436172644170706C69636174696F6E536572766963
654C697374A2038201003034800F436172644170706C69636174696F6EA11C821A4361726441
70706C69636174696F6E536572766963654C6F6164A2038201003036800F436172644170706C
69636174696F6EA11E821C436172644170706C69636174696F6E536572766963654372656174
65A2038201003036800F436172644170706C69636174696F6EA11E821C436172644170706C69
636174696F6E536572766963654465C657465A2038201003038800F436172644170706C6963
6174696F6EA120821E436172644170706C69636174696F6E536572766963654465736372696
65A2038201003052800F436172644170706C69636174696F6EA11E821C436172644170706C6
A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E674578746572
6E616C43657274A10280008201FF305280094E616D656444617461A10F830D44617461536574
44656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D
616E6745787465726E616C43657274A10280008201FF3052800D417574686F72697A6174696F
6EA10B860941434C4D6F64696679A234A432A015800C496E7465726E616C43657274A1028000
8201FFA01980104D616E6745787465726E616C43657274A10280008201FF3059801444696666
6572656E7469616C4964656E74697479A10B85094449444372656174 65A234A432A015800C49
6E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C43657274
A10280008201FF3059801444696666666572656E7469616C4964656E74697479A10B8509444944
44656C657465A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D
616E6745787465726E616C43657274A10280008201FF30819980094E616D656444617461A10D
830B446174615365744C697374A27DA47BA015800C496E7465726E616C43657274A102800082
01FFA562A00E8005434850494EA10280008201FFA01980104D616E6745787465726E616C4365
7274A10280008201FFA01A8011416C706861457874657 26E616C43657274A1028000820100A0
```


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19801042657461457874657265726E616C43657274A1028000820100820641504 95F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>544</refId>
  <annexAId>46</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>aclList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000010001 card application
     access rules. Ensure that the ACL has been updated
appropriately.</description>
  <encodedData
type="xs:hexBinary">7F901E820536A182052AA0820526301F800D417574686F72697A6174
696F6EA109860741434C4C697374A2038101FF3026801444696666657265 6E7469616C496465
6E74697479A10985074449444C697374A2038101FF3027800F436172644170706C6963617469
6F6EA10F820D45786563757465416374696F6EA203820100302B800A436F6E6E656374696F6E
A11881164361726441707 06C69636174696F6E436F6E6E656374A2038101FF302D800F436172
644170706C69636174696F6EA11582134361726441707 06C69636174696F6E4C697374A20381
01FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C69636174696F6E446973
636F6E6E656374A2038101FF302E800A436F6E6E656374696F6EA11B81194361726441707 06C
69636174696F6E456E6453657373696F6EA2038101FF302F800F436172644170706C69636174
696F6EA11782154361726441707 06C69636174696F6E437265617465A2038101FF302F800F43
6172644170706C69636174696F6EA11782154361726441707 06C69636174696F6E44656C6574
65A2038101FF3030800A436F6E6E656374696F6EA11D811B436172644170706C69636174696F
6E537461727453657373696F6EA2038101FF3034800F436172644170706C69636174696F6EA1
1C821A436172644170706C69636174696F6E53657276696365 4C697374A2038201003034800F
436172644170706C69636174696F6EA11C821A436172644170706C69636174696F6E53657276
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644170706C69636174696F6E53657276696365437265617465A2038201003036800F43617264
4170706C69636174696F6EA11E821C436172644170706C69636174696F6E5365727669636544
656C657465A2038201003038800F436172644170706C69636174696F6EA120821E4361726441
70706C69636174696F6E53657276696365446573637269626 5A2038201003052800 94E616D65
6444617461A10F830D446174615365744372656 17465A234A432A015800C496E7465726E616C
43657274A1028000820 FFA01980104D616E6745787465726E616C43657274A10280008201FF
305280094E616D656444617461A10F830D446174615365744465 6C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A1028000820 1FF3052800D417574686F72697A6174696F6EA10B860941434C4D6F64696679
A234A432A015800C496E7465726E616C43657274A10280008201FFA01980104D616E67457874
65726E616C43657274A10280008201FF3059801444696666657265 6E7469616C4964656E7469
7479A10B85094449444437265617465A234A432A015800C496E7465726E616C43657274A10280
008201FFA01980104D616E6745787465726E616C43657274A10280008201FF30598014446966
666572656E7469616C4964656E74697479A10B850944494444656C657465A234A432A015800C
496E7465726E616C43657274A10280008201FFA01980104D616E6745787465726E616C436572
74A10280008201FF30819980094E616D656444617461A10D830B4461746153657 44C697374A2
7DA47BA015800C496E7465726E616C43657274A10280008201FFA562A00E8005434850494EA1
0280008201FFA01980104D616E6745787465726E616C43657274A10280008201FFA01A801141
6C706861457874657 26E616C43657274A1028000820100A019801042657461457874657 26E61
6C43657274A1028000820100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>545</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>CALL</invocationType>
```


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```
  <description>Post-condition: Retrieve the A00000041000010001 card
application DID list. Ensure that the DID list
      contains the newly created DIDs.</description>
  <encodedData type="xs:hexBinary">7F901105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>546</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E744170705369646 52D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F901105A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>547</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>548</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>549</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F901105A10380010182064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>550</refId>
```

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```
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>551</refId>
  <annexAId>47</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>552</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F31819FA1819CA03C801C536D617274636172645369646652D5443
2D536573736967E49442D31821C536D617274636172645369646652D54432D53657373696F6E
49442D31815C7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572741A1042
657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A11416C70
6861457874657265726E616C43657274820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>553</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>554</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>555</refId>
  <annexAId>47</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D68A15E805C7F901258A14EA04C1A05434850494E1A0C496E74
65726E616C436572741A1042657461457874657265726E616C436572741A104D616E674578746572
6E616C436572741A11416C706861457874657265726E616C436572748206415049 5F4F4B82064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>556</refId>
  <annexAId>47</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>didList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000010001 card application DID
     list. Ensure that the DID list contains the newly created
DIDs.</description>
  <encodedData
type="xs:hexBinary">7F901258A14EA04C1A05434850494E1A0C496E7465726E616C436572
741A1042657461457874657265726E616C436572741A104D616E6745787465726E616C436572741A
11416C706861457874657265726E616C436572748206415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>557</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the A00000041000010001 card
application DataSet list. Ensure that the DataSet
     list contains the newly created DataSets.</description>
  <encodedData type="xs:hexBinary">7F8F7105A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>558</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F8F7105A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>559</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>560</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>561</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F7105A10380010182064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>562</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>563</refId>
  <annexAId>48</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>564</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3172A170A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D3181307F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453331A09416363
6573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>565</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>566</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>567</refId>
  <annexAId>48</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D3CA13280307F8F722CA122A0201A05312D4453311A05312D44
53321A05312D4453331A094163636573734C6F6782064150495F4F4B82064150495F4F4B</en
codedData>
</invAspect>
<invAspect>
  <refId>568</refId>
  <annexAId>48</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the A00000041000010001 card application
      DataSet list. Ensure that the DataSet list contains the newly created
DataSets.</description>
  <encodedData
type="xs:hexBinary">7F8F722CA122A0201A05312D4453311A05312D4453321A05312D4453
331A094163636573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>569</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the 1-DS1 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105312D445331</encodedData>
</invAspect>
<invAspect>
  <refId>570</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
      marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3168A166A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181107F8F750CA10A800101810531
2D445331</encodedData>
</invAspect>
<invAspect>
  <refId>571</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>572</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D536573736965E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>573</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F8F750CA10A8001018105312D44533182064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>574</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>575</refId>
  <annexAId>49</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>576</refId>
```

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```
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>577</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106 4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>578</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D31814687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>579</refId>
  <annexAId>49</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F760882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>580</refId>
  <annexAId>49</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Select the
1-DS1 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>581</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 1-DS1 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>582</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181097F8F7905A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>583</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>584</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>585</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F7905A1038001018206415049 5F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>586</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>587</refId>
  <annexAId>50</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>588</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F315EA15CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31811C7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>589</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>590</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>591</refId>
  <annexAId>50</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D28A11E801C7F8F7A18A10EA00C1A0A312D4453312D44534931
82064150495F4F4B82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>592</refId>
  <annexAId>50</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 1-DS1 DSI list. Ensure that the DSI list
     contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A18A10EA00C1A0A312D4453312D4453493182064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>593</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105312D445332</encodedData>
</invAspect>
<invAspect>
  <refId>594</refId>
  <annexAId>51</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3168A166A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181107F8F750CA10A800101810531
2D445332</encodedData>
</invAspect>
<invAspect>
  <refId>595</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415 0495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>596</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D6172746361726 4536964652D54432D53
657373696F6E49442D31821C536D6172746361726 4536964652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>597</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F8F750CA10A8001018105312D44533282064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>598</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>599</refId>
  <annexAId>51</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>600</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>601</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>602</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>603</refId>
  <annexAId>51</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F760882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>604</refId>
  <annexAId>51</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
1-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>605</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 1-DS2 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>606</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D61727463617264 2E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F8F7905A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>607</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>608</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>609</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F7905A1038001018206415049 5F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>610</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>611</refId>
  <annexAId>52</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>612</refId>
  <annexAId>52</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F316AA168A03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D3181287F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D445349328206
4150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>613</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088 64150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>614</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D31814687474703A2F2F736D617274636172642E6E6574821C436C6965
6E744170705369646 52D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>615</refId>
  <annexAId>52</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D34A12A80287F8F7A24A11AA0181A0A312D4453322D44534931
1A0A312D4453322D4453493282064150495F4F4B82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>616</refId>
  <annexAId>52</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
```

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```
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 1-DS2 DSI list. Ensure that the DSI list
     contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A24A11AA0181A0A312D4453322D445349311A0A312D4453322D
4453493282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>617</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the 1-DS2 DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F750CA10A8001018105312D445333</encodedData>
</invAspect>
<invAspect>
  <refId>618</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3168A166A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181107F8F750CA10A800101810531
2D445333</encodedData>
</invAspect>
<invAspect>
  <refId>619</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>620</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>621</refId>
  <annexAId>53</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1CA11280107F8F750CA10A8001018105312D44533382064150
495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>622</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>623</refId>
  <annexAId>53</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>624</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>625</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
```

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```
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>626</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>627</refId>
  <annexAId>53</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F760882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>628</refId>
  <annexAId>53</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
1-DS2 DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>629</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the 1-DS3 DSI list. Ensure that the
DSI list contains the newly created DSIs.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>630</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F8F7905A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>631</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>632</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>633</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F7905A10380010182064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>634</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>635</refId>
  <annexAId>54</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>636</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3176A174A03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D3181347F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D445349321A0A
312D4453332D44534933820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>637</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>638</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>639</refId>
  <annexAId>54</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D40A13680347F8F7A30A126A0241A0A312D4453332D44534931
1A0A312D4453332D445349321A0A312D4453332D4453493382064150495F4F4B82064150495F
4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>640</refId>
  <annexAId>54</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the 1-DS3 DSI list. Ensure that the DSI list
     contains the newly created DSIs.</description>
  <encodedData
type="xs:hexBinary">7F8F7A30A126A0241A0A312D4453332D445349311A0A312D4453332D
445349321A0A312D4453332D4453493382064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>641</refId>
  <annexAId>55</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Select the AccessLog DataSet.</description>
  <encodedData
type="xs:hexBinary">7F8F7510A10E800101810941636365737 34C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>642</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F316CA16AA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181147F8F7510A10E800101810941
63636573734C6F67</encodedData>
</invAspect>
<invAspect>
  <refId>643</refId>
  <annexAId>55</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>644</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>645</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D20A11680147F8F7510A10E800101810941636365737 34C6F67
82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>646</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>647</refId>
  <annexAId>55</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
```

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```
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>648</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>649</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>650</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>651</refId>
  <annexAId>55</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F760882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>652</refId>
  <annexAId>55</annexAId>
```

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```
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dataSetSelect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Select the
AccessLog DataSet.</description>
  <encodedData type="xs:hexBinary">7F8F760882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>653</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Retrieve the AccessLog DSI list. Ensure that
the DSI list contains the newly created DSI.</description>
  <encodedData type="xs:hexBinary">7F8F7905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>654</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F8F7905A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>655</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>656</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>657</refId>
```

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```
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F7905A1038001018206415049 5F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>658</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>659</refId>
  <annexAId>56</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>660</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F315DA15BA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31811B7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>661</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>662</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E744170705369644652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>663</refId>
  <annexAId>56</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D27A11D801B7F8F7A17A10DA00B1A094163636573734C6F6782
064150495F4F4B82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>664</refId>
  <annexAId>56</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>dsiList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Retrieve
the AccessLog DSI list. Ensure that the DSI
     list contains the newly created DSI.</description>
  <encodedData
type="xs:hexBinary">7F8F7A17A10DA00B1A094163636573734C6F6782064150495F4F4B</
encodedData>
</invAspect>
<invAspect>
  <refId>665</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the A00000041000010001
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>666</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F8F5905A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>667</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32088106415049 5F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>668</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>669</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F5905A10380010182064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>670</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>671</refId>
  <annexAId>57</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>672</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F5A08820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>673</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>674</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
```

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```
</invAspect>
<invAspect>
  <refId>675</refId>
  <annexAId>57</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F5A0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>676</refId>
  <annexAId>57</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Post-condition: Disconnect
from the A00000041000010001 application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>677</refId>
  <annexAId>58</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Post-condition: Disconnect from the Alpha card application.
Transmit on the IFDProxy shall be invoked to
     transmit the CardApplicationDisconnect APDU to the Alpha card
application. After transmit has completed, disconnect
     shall be invoked on the IFDProxy.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>678</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F8F5905A103800100</enco
dedData>
</invAspect>
<invAspect>
  <refId>679</refId>
  <annexAId>58</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>680</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>681</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F5905A10380010082064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>682</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>683</refId>
  <annexAId>58</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
```

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```
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>684</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>685</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>686</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>687</refId>
  <annexAId>58</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F5A0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>688</refId>
  <annexAId>58</annexAId>
```

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```
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>cardApplicationDisconnect</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Post-condition: Disconnect
    from the Alpha card application. Transmit
         on the IFDProxy shall be invoked to transmit the
    CardApplicationDisconnect APDU to the Alpha card application. After
         transmit has completed, disconnect shall be invoked on the
    IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>689</refId>
      <annexAId>59</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>terminate</method>
      <invocationType>CALL</invocationType>
      <description>Terminate the SAL Proxy. This shall automatically invoke
    ReleaseContext on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F53028100</encodedData>
    </invAspect>
    <invAspect>
      <refId>690</refId>
      <annexAId>59</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>close</method>
      <invocationType>CALL</invocationType>
      <description></description>
      <encodedData
    type="xs:hexBinary">7F9F2740A13EA03C801C436C69656E7441707053696465 2D54432D53
    657373696F6E49442D31821C436C69656E7441707053696465 2D54432D53657373696F6E4944
    2D31</encodedData>
    </invAspect>
    <invAspect>
      <refId>691</refId>
      <annexAId>59</annexAId>
      <layer>TC</layer>
      <layerName>TC Proxy</layerName>
      <method>close</method>
      <invocationType>RETURN</invocationType>
      <description></description>
      <encodedData type="xs:hexBinary">7F9F280881064150495F4F4B</encodedData>
    </invAspect>
    <invAspect>
      <refId>692</refId>
      <annexAId>59</annexAId>
      <layer>SAL</layer>
      <layerName>SAL Proxy</layerName>
      <method>terminate</method>
      <invocationType>RETURN</invocationType>
      <description>Return of previous SAL Proxy call: Terminate the SAL Proxy.
    This shall automatically invoke
         ReleaseContext on the IFDProxy.</description>
      <encodedData type="xs:hexBinary">7F8F540882064150495F4F4B</encodedData>
    </invAspect>
</invAspectList>
```

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D.3 Application management - application data structure construction error conditions

This appendix provides the test data and expected results (for the ICC-Resident stack model that implements TLS) as described in Annex A.1.3, that shall be consumed and interpreted by the components under test and/or the test components. The encoded data (i.e. Data encoded:) represents the expected communication protocol specific transmitted packages that are to be compared against the actual data that has been intercepted at these interfaces. The encoded data is the protocol specific representation of the parameters as defined in Annex A.1.3.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<invAspectList xmlns:ns2="urn:iso:std:iso-iec:24727:tech:schema">
     <invAspect>
       <refId>1</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>initialize</method>
       <invocationType>CALL</invocationType>
       <description>Initialise the SAL Proxy. This shall automatically invoke
     EstablishContext on the IFDProxy.</description>
       <encodedData type="xs:hexBinary">7F8F51028100</encodedData>
     </invAspect>
     <invAspect>
       <refId>2</refId>
       <annexAId>1</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>initialize</method>
       <invocationType>RETURN</invocationType>
       <description>Return of previous SAL Proxy call: Initialise the SAL Proxy.
     This shall automatically invoke
          EstablishContext on the IFDProxy.</description>
       <encodedData type="xs:hexBinary">7F8F520882064150495F4F4B</encodedData>
     </invAspect>
     <invAspect>
       <refId>3</refId>
       <annexAId>2</annexAId>
       <layer>SAL</layer>
       <layerName>SAL Proxy</layerName>
       <method>cardApplicationConnect</method>
       <invocationType>CALL</invocationType>
       <description>Pre-condition: Connect to the Alpha card application. This
     shall first invoke connect on the IFDProxy. In
          turn connect shall be invoked on the IFD layer on the client side.
     After connect has completed, transmit on the
          IFDProxy shall be invoked to transmit the CardApplicationConnect APDU
     to the Alpha card application. The IFD Name
          shall need to be replaced with an actual reader name when comparing the
     results to results from an ISO247272 stack.</description>
       <encodedData
     type="xs:hexBinary">7F8F5727A125A020A1168014687474703A2F2F736D61727463617264
     2E6E65748506E82881C11702810100</encodedData>
     </invAspect>
     <invAspect>
       <refId>4</refId>
       <annexAId>2</annexAId>
       <layer>TC</layer>
       <layerName>TC Proxy</layerName>
       <method>open</method>
```

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```
  <invocationType>CALL</invocationType>
  <description>Open a TLS connection to the smartcard.</description>
  <encodedData
type="xs:hexBinary">7F9F231AA1188014687474703A2F2F736D617274636172642E6E6574
8100</encodedData>
</invAspect>
<invAspect>
  <refId>5</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>open</method>
  <invocationType>RETURN</invocationType>
  <description>The response from the TLS open action.</description>
  <encodedData
type="xs:hexBinary">7F9F245EA154A052801C436C69656E7441707053696465D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465D54432D53657373696F6E49442D3182064150495F4F4B</encodedDat
a>
</invAspect>
<invAspect>
  <refId>6</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318184A18181A052801C436C69656E7441707053696465D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465D54432D53657373696F6E49442D31812B7F8F5727A125A020A116
8014687474703A2F2F736D617274636172642E6E65748506E82881C11702810100</encodedD
ata>
</invAspect>
<invAspect>
  <refId>7</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>8</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>9</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D37A12D802B7F8F5727A125A020A1160146874747O3A2F2F73
6D617274636172642E6E65748506E82881C11702810100820641504 95F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>10</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>11</refId>
  <annexAId>2</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>12</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3153A151A03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D3181117F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>13</refId>
```

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```
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>14</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E744170705369646 52D54432D53
657373696F6E49442D318114687474703A2F2F736D6172746361726 42E6E6574821C436C6965
6E744170705369646 52D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>15</refId>
  <annexAId>2</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1DA11380117F8F580DA10380010082064150495F4F4B820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>16</refId>
  <annexAId>2</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Connect to
the Alpha card application. This shall first
     invoke connect on the IFDProxy. In turn connect shall be invoked on the
IFD layer on the client side. After connect
     has completed, transmit on the IFDProxy shall be invoked to transmit
the CardApplicationConnect APDU to the Alpha
     card application. The IFD Name shall need to be replaced with an actual
reader name when comparing the results to
     results from an ISO247272 stack.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010082064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>17</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
```

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```
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>CALL</invocationType>
  <description>Pre-condition: Retrieve the Alpha card application DID list
of global DIDs. Ensure the CardApplicationList only contains
     the Alpha and card holder (A00000041000010001) card
applications.</description>
  <encodedData type="xs:hexBinary">7F8F5F05A103800100</encodedData>
</invAspect>
<invAspect>
  <refId>18</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D6172746361726 42E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D3181097F8F5F05A103800100</enco
dedData>
</invAspect>
<invAspect>
  <refId>19</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>20</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D6172746361726 4536964652D54432D53
657373696F6E49442D31821C536D6172746361726 4536964652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>21</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F5F05A10380010082064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>22</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>23</refId>
  <annexAId>3</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>24</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3165A163A03C801C536D617274636172645369646652D54432D53
6573736F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31812A7F8F601FA115A0130406E82881C117020409A000000410000100018206415049 5F4F
4B</encodedData>
</invAspect>
<invAspect>
  <refId>25</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
```

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```
  <refId>26</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696465 2D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>27</refId>
  <annexAId>3</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D2FA12580237F8F601FA115A0130406E82881C117020409A000
0004100001000182064150495F4F4B82064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>28</refId>
  <annexAId>3</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationList</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Pre-condition: Retrieve
the Alpha card application DID list of global DIDs. Ensure
     the CardApplicationList only contains the Alpha and card holder
(A00000041000010001) card applications.</description>
  <encodedData
type="xs:hexBinary">7F8F601FA115A0130406E82881C117020409A0000004100001000182
064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>29</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect to the A00000041000010001 card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F572AA128A023A1168014687474703A2F2F736D61727463617264
2E6E65748509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>30</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318187A18184A052801C436C69656E74417070536964652D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E74417070536964652D54432D53657373696F6E49442D31812E7F8F572AA128A023A116
8014687474703A2F2F736D617274636172642E6E65748509A00000041000010001810100</en
codedData>
</invAspect>
<invAspect>
  <refId>31</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>32</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>33</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D3AA130802E7F8F572AA128A023A1168014687474703A2F2F73
6D617274636172642E6E65748509A00000041000010001810100820641504 95F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>34</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>35</refId>
  <annexAId>4</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>36</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3153A151A03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D3181117F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>37</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>38</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
```


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```
  <refId>39</refId>
  <annexAId>4</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1DA11380117F8F580DA10380010182064150495F4F4B820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>40</refId>
  <annexAId>4</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect to the
A00000041000010001 card application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>41</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect again to the A00000041000010001 card application.
Ensure that multiple non-exclusive connections
     can exist to the same card application.</description>
  <encodedData
type="xs:hexBinary">7F8F572AA128A023A1168014687474703A2F2F736D61727463617264
2E6E65748509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>42</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318187A18184A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31812E7F8F572AA128A023A116
8014687474703A2F2F736D617274636172642E6E65748509A00000041000010001810100</en
codedData>
</invAspect>
<invAspect>
  <refId>43</refId>
  <annexAId>5</annexAId>
```

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```
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>44</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645364652D54432D53
657373696F6E49442D31821C536D617274636172645364652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>45</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D3AA130802E7F8F572AA128A023A1168014687474703A2F2F73
6D617274636172642E6E6574850A0000004100001000181010082064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>46</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>47</refId>
  <annexAId>5</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
```

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```
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>48</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3153A151A03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D3181117F8F580DA10380010282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>49</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>50</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>51</refId>
  <annexAId>5</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1DA11380117F8F580DA10380010282064150495F4F4B820641
50495F4F4B</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>52</refId>
  <annexAId>5</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Connect again to the
A00000041000010001 card application. Ensure that
     multiple non-exclusive connections can exist to the same card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010282064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>53</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Attempt to connect, in exclusive mode, to the
A00000041000010001 card application. Ensure an exclusive
     connection attempt shall fail when a non-exclusive connection already
exists.</description>
  <encodedData
type="xs:hexBinary">7F8F572AA128A023A116801468747470 3A2F2F736D61727463617264
2E6E65748509A00000041000010001 8101FF</encodedData>
</invAspect>
<invAspect>
  <refId>54</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318187A18184A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D54432D53657373696F6E49442D31812E7F8F572AA128A023A116
801468747470 3A2F2F736D617274636172642E6E65748509A00000041000010001 8101FF</en
codedData>
</invAspect>
<invAspect>
  <refId>55</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>56</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>57</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D3AA130802E7F8F572AA128A023A116801468747470 3A2F2F73
6D617274636172642E6E65748509A0000004100001000 18101FF82064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>58</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>59</refId>
  <annexAId>6</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>60</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
```

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```
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3163A161A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D3181217F8F581D821B4150495F4558434C55534956455F4E4F545F415641494C41424C45</
encodedData>
</invAspect>
<invAspect>
  <refId>61</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>62</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>63</refId>
  <annexAId>6</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
      SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D2DA12380217F8F581D821B4150495F4558434C55534956455F
4E4F545F415641494C41424C4582064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>64</refId>
  <annexAId>6</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Attempt to connect, in
exclusive mode, to the A00000041000010001 card
      application. Ensure an exclusive connection attempt shall fail when a
non-exclusive connection already exists.</description>
```

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```
  <encodedData
type="xs:hexBinary">7F8F581D821B4150495F4558434C55534956455F4E4F545F41564149
4C41424C45</encodedData>
</invAspect>
<invAspect>
  <refId>65</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
  <description>Disconnect from the A00000041000010001 card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800102</encodedData>
</invAspect>
<invAspect>
  <refId>66</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181097F8F5905A103800102</enco
dedData>
</invAspect>
<invAspect>
  <refId>67</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>68</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>69</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
      object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F5905A1038001028206415049 5F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>70</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>71</refId>
  <annexAId>7</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>72</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>73</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
```

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```
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>74</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>75</refId>
  <annexAId>7</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F5A0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>76</refId>
  <annexAId>7</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect from the
A00000041000010001 card application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>77</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>CALL</invocationType>
 <description>Disconnect again from the A00000041000010001 card application.
After this disconnect, there shall not be
     any connections to the A00000041000010001 card
application.</description>
  <encodedData type="xs:hexBinary">7F8F5905A103800101</encodedData>
</invAspect>
<invAspect>
  <refId>78</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
```

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```
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F3161A15FA052801C436C69656E74417070536964652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D3181097F8F5905A103800101</enco
dedData>
</invAspect>
<invAspect>
  <refId>79</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F3208810641504954F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>80</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 4652D54432D53
657373696F6E49442D31821C536D617274636172645369646 4652D54432D53657373696F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>81</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D15A10B80097F8F5905A10380010182064150495F4F4B</enco
dedData>
</invAspect>
<invAspect>
  <refId>82</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
```

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```
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>83</refId>
  <annexAId>8</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
      call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>84</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
      marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F314EA14CA03C801C536D617274636172645369646 52D54432D53
657373696F6E49442D31821C536D617274636172645369646 52D54432D53657373696F6E4944
2D31810C7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>85</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>86</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696 4652D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E7441707053696 4652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>87</refId>
  <annexAId>8</annexAId>
  <layer>TC</layer>
```

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```
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D18A10E800C7F8F5A0882064150495F4F4B82064150495F4F4B
</encodedData>
</invAspect>
<invAspect>
  <refId>88</refId>
  <annexAId>8</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationDisconnect</method>
  <invocationType>RETURN</invocationType>
  <description>Return of previous SAL Proxy call: Disconnect again from the
A00000041000010001 card application. After
     this disconnect, there shall not be any connections to the
A00000041000010001 card application.</description>
  <encodedData type="xs:hexBinary">7F8F5A0882064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>89</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
  <description>Connect, in exclusive mode, to the A00000041000010001 card
application.</description>
  <encodedData
type="xs:hexBinary">7F8F572AA128A023A1168014687474703A2F2F736D61727463617264
2E6E65748509A00000041000100018101FF</encodedData>
</invAspect>
<invAspect>
  <refId>90</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318187A18184A052801C436C69656E74417070536964652D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E74417070536964652D54432D53657373696F6E49442D31812E7F8F572AA128A023A116
8014687474703A2F2F736D617274636172642E6E65748509A00000041000100018101FF</en
codedData>
</invAspect>
<invAspect>
  <refId>91</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
```

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```
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>92</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D536573736F6E4944
2D31</encodedData>
</invAspect>
<invAspect>
  <refId>93</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The transmited SAL call object message from the TC Agent. The
SAL call object is the marshalled call
     object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F2D3AA130802E7F8F572AA128A023A1168014687474703A2F2F73
6D617274636172642E6E65748509A0000004100100018101FF82064150495F4F4B</encode
dData>
</invAspect>
<invAspect>
  <refId>94</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>CALL</invocationType>
  <description>Contains the DER encoded SAL call object from the previous
SAL Proxy call.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
<invAspect>
  <refId>95</refId>
  <annexAId>9</annexAId>
  <layer>GCI</layer>
  <layerName>Smart Card</layerName>
  <method>transmitSalCmd</method>
  <invocationType>RETURN</invocationType>
  <description>Contains the DER encoded on-card SAL return
object.</description>
  <encodedData xsi:type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">&lt;Unknown GCI
     call class: qdtmr.frwk.rmi.simulator.SalAction&gt;</encodedData>
</invAspect>
```

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```
<invAspect>
  <refId>96</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>The response to the previous read. The payload is a SAL
return object. The SAL return object is the
     marshalled response object from the previous on-card SAL
response.</description>
  <encodedData
type="xs:hexBinary">7F9F3153A151A03C801C536D617274636172645369646652D54432D53
657373696F6E49442D31821C536D617274636172645369646652D54432D53657373696F6E4944
2D3181117F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>97</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F32081064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>98</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the response, from the on-card TC Agent, to the
previous write.</description>
  <encodedData
type="xs:hexBinary">7F9F2C56A154A052801C436C69656E7441707053696465 2D54432D53
657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C6965
6E74417070536964652D54432D53657373696F6E49442D31</encodedData>
</invAspect>
<invAspect>
  <refId>99</refId>
  <annexAId>9</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>read</method>
  <invocationType>RETURN</invocationType>
  <description>The response, from the on-card TC Agent, to the previous
write. The payload is a SAL return object. The
     SAL return object is the marshalled response object from the previous
on-card SAL response.</description>
  <encodedData
type="xs:hexBinary">7F9F2D1DA11380117F8F580DA10380010182064150495F4F4B820641
50495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>100</refId>
  <annexAId>9</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
```

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```
  <method>cardApplicationConnect</method>
  <invocationType>RETURN</invocationType>
 <description>Return of previous SAL Proxy call: Connect, in exclusive mode,
to the A00000041000010001 card
     application.</description>
  <encodedData
type="xs:hexBinary">7F8F580DA10380010182064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>101</refId>
  <annexAId>10</annexAId>
  <layer>SAL</layer>
  <layerName>SAL Proxy</layerName>
  <method>cardApplicationConnect</method>
  <invocationType>CALL</invocationType>
 <description>Attempt to connect to the A00000041000010001 card application.
Ensure a non-exclusive connection attempt
     shall fail when an exclusive connection already exists.</description>
  <encodedData
type="xs:hexBinary">7F8F572AA128A023A1168014687474703A2F2F736D61727463617264
2E6E65748509A00000041000010001810100</encodedData>
</invAspect>
<invAspect>
  <refId>102</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>CALL</invocationType>
  <description>Transmit the SAL call object from the TC Proxy to the on-card
TC Agent. The SAL call object is the
     marshalled call object from the previous SAL Proxy call.</description>
  <encodedData
type="xs:hexBinary">7F9F318187A18184A052801C436C69656E7441707053696465 2D5443
2D53657373696F6E49442D318114687474703A2F2F736D617274636172642E6E6574821C436C
69656E7441707053696465 2D5443 2D53657373696F6E49442D31812E7F8F572AA128A023A116
8014687474703A2F2F736D617274636172642E6E65748509A00000041000010001810100</en
codedData>
</invAspect>
<invAspect>
  <refId>103</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Proxy</layerName>
  <method>write</method>
  <invocationType>RETURN</invocationType>
  <description>Return of the write.</description>
  <encodedData type="xs:hexBinary">7F9F320881064150495F4F4B</encodedData>
</invAspect>
<invAspect>
  <refId>104</refId>
  <annexAId>10</annexAId>
  <layer>TC</layer>
  <layerName>TC Agent</layerName>
  <method>read</method>
  <invocationType>CALL</invocationType>
  <description>Wait for the call, from the TC Agent.</description>
  <encodedData
type="xs:hexBinary">7F9F2C40A13EA03C801C536D617274636172645369646 52D54432D53
```

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